外部委託業者の募集

References: IO/25/OT/70001327/KJT

"IT Engineering Tools Support"

（IT エンジニアリングツールのサポート）

IO 締め切り 2025 年 8 月 1 日(金)

〇はじめに

本事前情報通知（PIN）は、作業契約の入札授与および実行につながる公開入札調達プロセスの最初のステップです。

本文書の目的は作業範囲と入札プロセスに関する技術的な内容の基本的な要約を提供することです。

国内機関は、次回の入札に先立って、これらのサービス/工事を提供することができる企業、機関またはその他の団体が入札の詳細を事前に通知する前に、この情報を公表するよう求められます。

〇背景

ITER は平和利用の核融合発電の科学的および技術的な実現可能性の実証を目的とした、国際共同研究開発プロジェクトです。ITER 機構の 7 つのメンバーは、;欧州連合（EURATOM が代表）、日本、中華人民共和国、インド、大韓民国、ロシア連邦、および米国です。

ITER の敷地はフランス南東部のブーシュデュローヌ地区にあり、ITER 本社（HQ）もあるフランス CEA サン・ポール・レ・デュランス に近いところに位置しています。詳細については、ITER のウェブサイト http://www.iter.org を参照して下さい。

〇作業範囲

本フレームワーク契約は、主にダッソー・システムズのCATIA/ENOVIA V5、ヘキサゴンのSmartPlant Materials & Foundation、およびその他のソフトウェア（技術仕様書：11.2 技術環境の説明を参照）といった、様々なCADおよび商用データ管理システムの保守・改良に関する幅広いサービスを提供することを目的としています。

詳細については、2025年 7 月 1 日付の技術仕様書ref. ITER_D_EAWB9V v1.2 （本PINに添付）をご覧ください。

〇調達プロセスと目的

目的は、競争入札プロセスを通じて供給契約を落札することです。

この入札のために選択された調達手続きは公開入札手続きと呼ばれます。

オープン入札手順は、次の 4 つの主要なステップで構成されています。

- ステップ 1-事前情報通知（PIN）

  事前情報通知は公開入札プロセスの第一段階です。IO は、関心のある候補企業に対し、以下

の概略日程に示された期日までに担当調達担当官に添付の関心表明フォームで以下の情報を提出し、競争プロセスへの関心を示すよう正式に要請します。

- 会社名
- 登録の国名
- 担当者名、email アドレス、肩書および電話番号

特に注意:
関心のある候補企業は、IO Ariba の電子調達ツール 「IPROC」 に登録してください（まだ登録していない場合）。手順については、
https://www.iter.org/fr/proc/overview
を参照してください。

Ariba (IPROC) に登録する際には、お取引先様に最低 1 名の担当者の登録をお願いします。この連絡担当者は、提案依頼書の発行通知を受け取り、必要と思われる場合は入札書類を同僚に転送することができます。

- ステップ 2-入札への招待

  PIN の発行から 10 作業日経過後、提案依頼書（RFP）を 「IPROC」 に掲載します。この段階では、担当の調達担当者に関心を示し、かつ IPROC に登録している関心のある候補企業は、RFP が公表された旨の通知を受けることができます。その後、RFP に詳述されている入札説明書に従って提案書を作成し、提出します。

  このツールに登録されている企業のみが入札に招待されます。

- ステップ 3-入札評価プロセス

  入札者の提案は、IO の公平な評価委員会によって評価されます。入札者は、技術的範囲に沿って、かつ、RFP に記載された特定の基準に従って作業を実施するために、技術的遵守を証明する詳細を提供しなければなりません。

- ステップ 4-落札

  認定は、公開されている RFP に記載されている、コストに見合った最適な価格または技術的に準拠した最低価格に基づいて行われます。

〇概略日程

概略日程は以下の通りです：

マイルストーン	暫定日程
事前指示書（PIN）の発行	2025 年 7 月 18 日
関心表明フォームの提出	2025 年 8 月 1 日

iPROC での提案リクエスト（RFP）の発行	2025 年 8 月 18 日の週
明確化のための質問（もしあれば）の締め切り	2025 年締め切りの 15 日前
明確化のための質問への回答締め切り	2025 年締め切りの 10 日前
iPROC での入札提出	2025 年 9 月 29 日の週
入札評価及び契約授与	2025 年 11 月
契約調印	2025 年 11 月
契約開始	2025 年 Q4（タスクオーダーを通して）

〇契約期間と実行

ITER機構は2025年のＱ４ごろ供給契約を授与する予定です。予想される契約期間は3年で、２つオプション期間としてそれぞれ1年の延長を含む予定です。

ITERで使われる言語は英語で、流ちょうなプロレベルが必要です（話言葉、書き言葉とも）。

〇経験

契約者は、様々な CAD および商用データ管理システムの保守・改良に関する幅広いサービス提供において豊富な経験を有しており、売上高が 250 万ユーロ以上、または従業員 2,000 人以上の大規模な公的機関での類似プロジェクトにおいて少なくとも 3 件の顧客実績が必要です。

契約者は、関連する様々なソフトウェアの機能開発、構成、および必要に応じたカスタマイズのサポートにおいて豊富な経験を有している必要があります。これには、IO からの仕様に基づく構成とカスタマイズ、バグ修正、テスト、標準および専門パッケージの展開、ならびにユーザーのインシデントおよびサービスリクエストのグローバルな処理（DEV）が含まれます。

契約者は、システムおよびデータ統合アーキテクチャの提供、関連プロセスとメソッドの形式化、システムコンポーネントおよびシステムインターフェースの機能仕様と技術仕様の作成、展開、および関連する実装計画のサポートにおいて豊富な経験を有している必要があります（ARCH）。

契約者は、関連する様々なソフトウェアのプラットフォーム管理および構成のサポート、ならびに様々なカスタマイズやその他のソフトウェア/ハードウェア関連のニーズのスムーズな構築および展開における DEV および ARCH サービスの支援において豊富な経験を有している必要があります（OPS）。

〇候補

参加は、個人またはグループ/コンソーシアムに参加するすべての法人に開放されます。法人とは、法的権利及び義務を有し、ITER 加盟国内に設立された個人、企業又は機構をいいます。ITER 加盟国は欧州連合(EURATOM メンバー)、日本、中華人民共和国、インド共和国、大韓民国、ロシア連邦

、アメリカ合衆国です。

法人は、単独で、またはコンソーシアムパートナーとして、同じ契約の複数の申請または入札に参加することはできません。共同事業体は、恒久的な、法的に確立されたグループ又は特定の入札手続のために非公式に構成されたグループとすることができます。

コンソーシアムのすべての構成員(すなわち、リーダーと他のすべてのメンバー)は、ITER 機構に対して連帯して責任を負います。

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指名されたコンソーシアムのリーダーは、入札段階で、コンソーシアムのメンバーの構成を説明する予定です。その後、候補者の構成は、いかなる変更も ITER 機構に通知することなく変更してはなりません。かかる認可の証拠は、すべてのコンソーシアムメンバーの法的に授権された署名者が署名した委任状の形式で、しかるべき時期に IO に提出しなければなりません。

どのコンソーシアムメンバーも IPROC に登録する必要があります。

【※　詳しくは添付の英語版技術仕様書「**IT Engineering Tools Support**」をご参照ください。】
ITER 公式ウェブ　http://www.iter.org/org/team/adm/proc/overview からもアクセスが可能です。

「核融合エネルギー研究開発部門」の HP：　http://www.fusion.qst.go.jp/ITER/index.html では ITER 機構からの各募集（IO 職員募集、IO 外部委託、IO エキスパート募集）を逐次更新しています。ぜひご確認ください。

イーター国際核融合エネルギー機構からの外部委託
に関心ある企業及び研究機関の募集について

＜ITER 機構から参加極へのレター＞

以下に、外部委託の概要と要求事項が示されています。参加極には、提案された業務に要求される能力を有し、入札すべきと考える企業及び研究機関の連絡先の情報を ITER 機構へ伝えることが求められています。このため、本研究・業務に関心を持たれる企業及び研究機関におかれましては、応募書類の提出要領にしたがって連絡先情報をご提出下さい。

china eu india japan korea russia usa
Route de Vinon-sur-Verdon - CS 90 046 - 13067 St Paul Lez Durance Cedex - France

To: Domestic Agencies (DAs)

Date: 18 July 2025

IO Tender Reference: IO/25/OT/70001327/KJT

Title: IT Engineering Tools Support

Subject: Prior Indicative Notice (PIN)

Dear colleagues,

The ITER Organization intends to launch an Open Tender process in the coming weeks as indicated above and in accordance with the details in the attached Prior Indicative Notice (PIN). In this regard, and to provide some introductory information about the forth-coming tender, we kindly request the attached PIN to be published on your DA website with immediate effect until 1 August 2025.

The advance notification is to alert companies, institutions or other eligible entities to the forth-coming tender, and provide information to promote healthy competition, allowing interested parties time to decide whether to participate in the tender or not.

Please could you kindly acknowledge receipt of this e-mail and confirm once the PIN is published on your website.

Yours sincerely

Kristel Jeanmart
Buyer

Annexes:
- Prior Indicative Notice
- Technical Specifications
- Expression of Interest Form

Contact: Kristel Jeanmart – Procurement Division- Tel. +33 4 42 17 68 19
e-mail: kristel.jeanmart@iter.org

china eu india japan korea russia usa
Route de Vinon-sur-Verdon - CS 90 046 - 13067 St Paul Lez Durance Cedex - France

PRIOR INDICATIVE NOTICE (PIN)

OPEN TENDER SUMMARY

IO/25/OT/70001327/KJT

for

IT Engineering Tools Support

Abstract

The purpose of this summary is to provide prior notification of the IOs intention to launch a competitive Open Tender process in the coming weeks. This summary provides some basic information about the ITER Organisation, the technical scope for this tender, and details of the tender process for the provision of support mechanisms for IT engineering tools.

1 Introduction

This Prior Indicative Notice (PIN) is the first step of an Open Tender Procurement Process leading to the award and execution of a Framework Contract(s).
The purpose of this document is to provide a basic summary of the technical content in terms of the scope of work, and the tendering process.
The Domestic Agencies are invited to publish this information in advance of the forth-coming tender giving companies, institutions or other entities that are capable of providing these services prior notice of the tender details.

2 Background

The ITER project is an international research and development project jointly funded by its seven Members being, the European Union (represented by EURATOM), Japan, the People's Republic of China, India, the Republic of Korea, the Russian Federation and the USA. ITER is being constructed in Europe at St. Paul–Lez-Durance in southern France, which is also the location of the headquarters (HQ) of the ITER Organization (IO).

For a complete description of the ITER Project, covering both organizational and technical aspects of the Project, visit www.iter.org.

3 Scope of Work

The purpose of this framework contract(s) is the supply of a wide range services in the field of the maintenance and evolution of various CAD and commercial data management systems primarily CATIA/ENOVIA V5 from Dassault Systèmes, and SmartPlant Materials & Foundation from Hexagon as well as other software (See Technical specifications :11.2 Description of the technical environment).

The details can be found in the Technical Specifications ref. ITER_D_EAWB9V v1.2 dated 1 July 2025 (attached to this PIN).

4 Procurement Process & Objective

The objective is to award a Framework Contract(s) through a competitive bidding process.

The Procurement Procedure selected for this tender is called the Open Tender procedure.

The Open Tender procedure is comprised of the following four main steps:

- Step 1- Prior Indicative Notice (PIN) :
  The Prior Indicative Notice is the first stage of the Open Tender process. The IO formally invites the Domestic Agencies to publish information about the forth coming tender in order to alert companies, institutions or other entities about the tender opportunity in advance. Interested tenderers are kindly requested to return the expression of interest form (Annex I) by e-mail by the date indicated in the procurement timetable below.

  Special attention:
  Interested tenderers are kindly requested to register in the IO Ariba e-procurement tool called "IPROC". The registration process is described at the following link: https://www.iter.org/fr/proc/overview.
  When registering in Ariba (IPROC), suppliers are kindly requested to nominate at least one contact person. This contact person will be receiving the notification of publication of the

Request for Proposal and will then be able to forward the tender documents to colleagues if deemed necessary.

- Step 2 – Request for Proposal :
  The Request for Proposal will be sent in IPROC to the Tenderers who expressed their interests in accordance with the procurement timetable below. This stage allows interested bidders who have seen the PIN to obtain the tender documents and to prepare and submit their proposals in accordance with the tender instructions.

  Special attention:
  Only companies registered in the IPROC tool will be invited to the tender.

- Step 3 – Tender Evaluation Process :
  Tenderers proposals will be evaluated by an impartial, professionally competent technical evaluation committee of the ITER Organization. Tenderers must provide details demonstrating their technical compliance to perform the work in line with the technical scope and in accordance with the particular criteria listed in the Request for Proposal (RFP).

- Step 4 – Contract award :
  A framework contract(s) will be awarded on the basis of Best Value for Money according to the evaluation criteria and methodology described in the Request for Proposal (RFP).

Procurement Timetable

The tentative timetable is as follows:

Milestone	Date
Publication of the Prior Indicative Notice (PIN)	18 July 2025
Submission of expression of interest form	1 August 2025
Request for Proposal (RFP) publishing on IPROC	Week of 18 August 2025
Clarification Questions (if any) and Answers	15 days before tender submission deadline
Answers to Clarifications	10 days before tender submission deadline
Tender Submission in IPROC	Week of 29 September 2025
Tender Evaluation & Contract Award	November 2025
Contract Signature	November 2025
Contract Commencement	Q4 2025 (through Task Orders)

5 Quality Assurance Requirements

Prior to commencement of any work under this Contract(s), a "Quality Plan" shall be produced by the Supplier and Subcontractors and submitted to the IO for approval, describing how they will implement the ITER Procurement Quality Requirements.

6 Contract Duration and Execution

The ITER Organization shall award a Framework Contract(s) around Q4 2025. The estimated contract duration shall be 3 years with 2 optional periods of 1 year each.

The working language of ITER is English, and a fluent professional level is required (spoken and written).

7 Experience and Capacity

The Contractor has extensive experience in providing a wide range services in the field of the maintenance and evolution of various CAD and commercial data management systems with at least 3 customer references in similar projects with at least 2.5M€ turnover or large public organizations (over 2000 employee).

The Contractor has extensive experience in supporting the development configuration and customization whenever required of functionalities of the different software involved. This covers the configuration and customization based on specifications from IO, bug-fixing, testing, deployment of the standard and specialized packages and global user's incident and service requests handling (DEV).

The Contractor has extensive experience in supporting the delivery of the system and data integrated architecture, formalization of relevant processes and methods, functional and technical specifications for systems components and systems interfaces, deployment and relevant implementation plan (ARCH).

The Contractor has an extensive experience in supporting the platform administration & configuration of the different software involved and assisting DEV & ARCH services with the smooth build & deployment of various customizations and other software/hardware related needs (OPS).

8 Candidature

Participation is open to all legal entities participating either individually or in a grouping/consortium. A legal entity is an individual, company, or organization that has legal rights and obligations and is established within an ITER Member State.

Legal entities cannot participate individually or as a consortium partner in more than one application or tender of the same contract. A consortium may be a permanent, legally-established grouping, or a grouping which has been constituted informally for a specific tender procedure. All members of a consortium (i.e. the leader and all other members) are jointly and severally liable to the ITER Organization.

In order for a consortium to be acceptable, the individual legal entities included therein shall have nominated a leader with authority to bind each member of the consortium, and this leader shall be authorised to incur liabilities and receive instructions for and on behalf of each member of the consortium.

It is expected that the designated consortium lead will explain the composition of the consortium members in a covering letter at the tendering stage. Following this, the Candidate's composition must not be modified without notifying the ITER Organization of any changes. Evidence of any such authorisation shall be submitted to the IO in due course in the form of a power of attorney signed by legally authorised signatories of all the consortium members.

9 Sub-contracting Rules

All sub-contractors who will be taken on by the Contractor shall be declared with the tender submission. Each sub-contractor will be required to complete and sign forms including technical and administrative information which shall be submitted to the IO by the tenderer as part of its tender.

The IO reserves the right to approve any sub-contractor which was not notified in the tender and request a copy of the sub-contracting agreement between the tenderer and its sub-contractor(s). For each Contract, sub-contracting is allowed but it is limited to one level, and its cumulated volume is limited to 30% of the total Contract value. Two levels of sub-contracting may be considered for very specific activities which will be mentioned by the IO in the Tender documentation.

IDM UID
EAWB9V

VERSION CREATED ON / VERSION / STATUS
01 Jul 2025 / 1.2 / Approved

EXTERNAL REFERENCE / VERSION

Technical Specifications (In-Cash Procurement)

TECS_2025-06_CFT_IT Engineering Tools Support

The document titled "Technical_Specifications_IT Engineering Tools Support.docx" provides a comprehensive overview of the technical specifications and support mechanisms for IT engineering tools. It covers various aspects such as system requirements, installation procedures, configuration guidelines, and troubleshooting steps. The document also outlines the roles and responsibilities of the support team, along with the escalation process for resolving complex issues. Additionally, it includes ...

SERVICE

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SERVICE

1. Preamble

This Technical Specification is to be read in combination with the General Management Specification for Service and Supply (GM3S) – [Ref 1] that constitutes a full part of the technical requirements.

In case of conflict, the content of the Technical Specification supersedes the content of Ref [1].

2. Purpose

The IT Project Tools section is responsible for the maintenance and evolution of various CAD and commercial data management systems primarily CATIA/ENOVIA V5 from Dassault Systèmes, and SmartPlant Materials & Foundation from Hexagon as well as other software listed in the Technical Environment section.

The objective of this technical specification is to define the overall frame of services for those software platforms used by the ITER Organization.

3. Acronyms & Definitions

3.1. Acronyms

The following acronyms are the main one relevant to this document.

Abbreviation	Description
CRO	Contract Responsible Officer
GM3S	General Management Specification for Service and Supply
IO	ITER Organization
PRO	Procurement Responsible Officer

3.2. Definitions

Contractor: shall mean an economic operator who have signed the Contract in which this document is referenced.

4. Applicable Documents & Codes and standards

4.1. Applicable Documents

This is the responsibility of the Contractor to identify and request for any documents that would not have been transmitted by IO, including the below list of reference documents.

This Technical Specification takes precedence over the referenced documents. In case of conflicting information, this is the responsibility of the contractor to seek clarification from IO.

Upon notification of any revision of the applicable document transmitted officially to the contractor, the contractor shall advise within 4 weeks of any impact on the execution of the contract. Without any response after this period, no impact will be considered.

SERVICE

Ref	Title	IDM Doc ID	Version
1	General Management Specification for Service and Supply (GM3S)	82MXQK	1.4

4.2. Applicable Codes and Standards

This is the responsibility of the contractor to procure the relevant Codes and Standards applicable to that scope of work.

5. Scope of Work

This section defines the specific scope of work for the service, in addition to the contract execution requirement as defined in Ref [1].

The framework contract will be set up for 5 years (3 firm years + 2 options of 1 year each) with task(s) order(s) to be established according to the needs identified by IO .

5.1. Service for Development & Support (DEV)

The purpose of this service is to support the development configuration and customization whenever required of functionalities of the different software involved. This covers the configuration and customization based on specifications from IO, bug-fixing, testing, deployment of the standard and specialized packages and global user's incident and service requests handling.

The expected deliverables are:

- Source code
- Data migration, correction scripts
- Development and support how-to
- Manuals, presentations
- Code documentation describing technical implementation based on specification,
- Test cases results
- Software configuration management guidelines (release and deployment management)
- Activity reports containing details on tickets managed, severity of the issue identified, solution implemented and possible system improvements

It also covers the integration between the different software described previously but also with other large-scale data management systems at ITER primarily ICP (ITER Collaboration Platform) using various interfacing technology including API, and messaging.

5.2. Service for Solution Benchmarking and Architecture (ARCH)

The purpose of this service is to support the delivery of the system and data integrated architecture, formalisation of relevant processes and methods, functional and technical

specifications for systems components and systems interfaces, deployment and relevant implementation plan.

It also addresses the evaluation of new technologies to benefit ITER construction around plant / machine digitalization, AR/VR/XR through technical watch, market surveys and proof of concepts/pilots.

The expected deliverables are:

- Manuals, presentations for business stakeholders
- Software architecture document
- Users Scenarios, Use-Cases and integrated Methods
- High level interfaces design document including integrations timeline
- Data migration requirements and high-level design document
- Activity reports containing details on tickets managed severity of the issue identified, solution implemented and possible system improvements.

5.3. Service for Engineering DevOps and Support (OPS)

The purpose of this service is to support the platform administration & configuration of the different software involved and assisting DEV & ARCH services with the smooth build & deployment of various customizations and other software/hardware related needs.

It covers but not limited to the day-to-day maintenance and monitoring of the health of the various production, test, and training environments; the IT infrastructure supporting those environments (Windows & Linux server, containers, cloud resources, jobs scheduler, interfaces, etc.) on-premised and in MS Azure cloud in collaboration with IT infrastructure teams. It also covers the resolution of technical issues between internal user teams and software vendors (e.g Dassault Systèmes) and the support for deployment including the release management and software configuration management.

In addition, the management of resolution of technical issues ensuring they are identified, registered, and managed successfully to conclusion following standard IT process for service delivery (ITIL) and to participate to the technical configuration of various solutions including the development of scripts following infrastructure-as-code best practices.

The expected deliverables are:

- Solution of the issues reported by users related to IT infrastructure
- Ansible Playbooks / Roles / Terraform scripts/ Software code to automate the routine system admin tasks
- SQL for data analysis and migration when needed
- P & O configuration and data model customization when required.
- Specialisations packages deployment; Customisations deployment
- JIRA tasks and Git wherever required.
- Activity reports containing details on tickets managed, severity of the issue identified, solution implemented and possible system improvements

SERVICE

6. Location for Scope of Work Execution

Contractor can perform the work on IO site or at their own location.

7. IO Documents

No input is expected from IO.

8. List of deliverables and due dates

The Supplier shall provide IO with the documents and data required in the application of this technical specification, the GM3S Ref [1] and any other requirement derived from the application of the contract.

All the deliverables are to be completed at the same time as all the Scopes of Work are executed in parallel.

8.1. IO General Deliverables

IO IT provides in-house developed tools to record exhaustive work completed and to log activities. These tools are mandatory to use as they provide a basis for accounting and invoicing.

- Descriptions of work completed: Jira Worklogs and Confluence Pages.
- Logging of time spent: Jira Worklogs and WorklogPro approved timesheets
- Records of absence: Confluence Team Calendars and WorklogPro time logged in Absence Tickets.

Monthly activity reports contain qualitative and quantitative detailed information about the issues the Contractor has been confronted to, about the solution proposed and implemented, the innovations introduced in the processes and the ideas to further improve the service. These reports shall be agreed and accepted from IO TRO to release the corresponding payment.

8.2. Acceptance Criteria

Deliverables must be validated by the ITER technical RO.

9. Quality Assurance requirements

The Quality class under this contract is [4], [Ref 1] GM3S section 8 applies in line with the defined Quality Class.

10. Safety requirements

Not Applicable

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10.1. Nuclear class Safety

Not Applicable

10.2. Seismic class

No specific safety requirement related to PIC and/or PIA and/or PE/NPE components apply.

11. Special Management requirements

Requirement for [Ref 1] GM3S section 6 applies completed/amended with the below specific requirements:

11.1. Expected skills and experience of the team

All resources shall have higher diploma or certificates in Engineering, Computer Science or equivalent, be fluent in English and have good ability to work in a team environment.

In addition, all resources involved with project & service management activities shall have required certifications and trainings (PRINCE 2, PMI, Agile, ITIL, etc.)

11.1.1. Profile Senior Business Expert, Solution & System Architect (SEXP)

At least 10 years of experience in business expertise, solution & system architecture covering the various requirements described for the following services ARCH and DEV described in section 5.

Major expertise areas expected and activities of the SEXP profile are (but not limited to):

- Strong experience in implementing CAD/PDM/PLM/BIM/GIS systems in complex IT environments or comparable CAD/PDM/PLM/BIM/GIS systems.
- Strong business experience in design management processes, configuration management, change management, requirement management and how to realize, implement and manage them with CAD/PDM/PLM/BIM/GIS systems.
- Strong experience in defining with customer functional requirements and delivering coherent solution and/or system architecture.
- Strong knowledge of innovative technologies, including AI, AR/VR/XR, and how to leverage these for enhanced business solutions.
- Experience in integrating AI-driven insights and AR/VR/XR technology into CAD/PDM/PLM systems to improve user experience and efficiency, including platforms such as Unity, Unreal Engine, GAMMA AR, Techviz, Meta Quest, and Nvidia Omniverse.
- Experience with BIM and GIS platforms such as Navisworks, Hexagon iConstruct, Autodesk Construction Cloud, QGIS, and QWC in the context of engineering data and digital plant integration.
- Familiarity with integration and document management systems such as ENOVIA V5 R34, EDB, SMDD, IDM, and Autodesk Platform Services.
- Understanding of catalog and material management systems such as SmartPlant Materials and CADENAS.

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- Ability to stay abreast of emerging technologies and evaluate their potential impact on current and future projects.
- Excellent leadership, communication, and interpersonal skills.
- Analyze & understand As-Is system architecture and customization.
- Strong expertise in designing To-Be system architecture and customization.
- Strong experience in engaging with ITER team during business requirement gathering.
- Aid ITER in identifying interface requirements, defining the interfacing strategy and high-level interface architecture.
- Aid ITER in identifying data migration requirements, defining the migration strategy and high-level design.
- Assist team by suggesting data governance best practices and preventing potential technical pitfalls.
- Provides input into future software functionality, implementation methodology and customization standards.

11.1.2. Profile Business Expert, Solution & System Architect (EXP)

At least 6 years of experience in business expertise, solution & system architecture covering the various requirements described for the following services ARCH and DEV described in section 5.

Major expertise areas expected and activities of the EXP profile are (but not limited to):

- Strong experience in implementing CAD/PDM/PLM/BIM/GIS systems in complex IT environments or comparable CAD/PDM/PLM/BIM/GIS systems.
- Strong business experience in design management processes, configuration management, change management, requirement management and how to realize, implement and manage them with CAD/PDM/PLM/BIM/GIS systems.
- Solid experience in defining with customer functional requirements and delivering coherent solution and/or system architecture.
- Strong knowledge of innovative technologies, including AI, AR/VR/XR, and how to leverage these for enhanced business solutions.
- Experience in integrating AI-driven insights and AR/VR/XR technology into CAD/PDM/PLM systems to improve user experience and efficiency, including tools such as Unity, Unreal Engine, GAMMA AR, Techviz, Meta Quest, and Nvidia Omniverse.
- Experience with BIM and GIS platforms such as Navisworks, Hexagon iConstruct, Autodesk Construction Cloud, QGIS, and QWC in the context of engineering data and digital plant integration.
- Familiarity with integration and document management systems such as ENOVIA V5 R34, EDB, SMDD, IDM, and Autodesk Platform Services.
- Understanding of catalog and material management systems such as SmartPlant Materials and CADENAS.
- Ability to stay abreast of emerging technologies and evaluate their potential impact on current and future projects.
- Excellent leadership, communication, and interpersonal skills.
- Analyze & understand As-Is system architecture and customization.
- Proposes To-Be system architecture and customization.
- Engage with ITER team during business requirement gathering.

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- Aid ITER in identifying interface requirements, defining the interfacing strategy and high-level interface architecture.
- Aid ITER in identifying data migration requirements, defining the migration strategy and high-level design.
- Assist team by suggesting data governance best practices and preventing potential technical pitfalls.
- Provides input into future software functionality, implementation methodology and customization standards.

11.1.3. Profile Senior developer or Technical Lead (DEV-SD)

At least 6 years of experience in development and/or technical lead covering the various requirements described for the DEV service described in section 5.
Major expertise areas expected and activities of the DEV-SD profile are (but not limited to):

- Strong knowledge of business processes like Engineering/Design change management, design data configuration management, part and component data management, BOM management, Drawing management, 2D/3D design, design collaboration (concurrent engineering) and software project management experience.
- Strong experience of enterprise application integration with other engineering and data management systems (preferably DELMIA, CADENAS, Autodesk Construction Cloud, SmartPlant Materials, and business intelligence tools).
- Knowledge of enterprise data (structured and unstructured) management, including experience with Microsoft SQL Server and Oracle.
- Experience of other development frameworks: .NET, VB. Practical expertise for interfaces design and development. Exposure to / working knowledge with SOA will be a plus.
- Experience with DevOps and automation tools such as Terraform, Ansible, Docker, AWX, Bamboo, and Nexus for deployment and configuration management.
- Familiarity with immersive technologies and their integration into engineering workflows (Unity, Unreal Engine, GAMMA AR, Techviz, Meta Quest, Nvidia Omniverse).
- Experience with GIS and BIM tools such as QGIS, QWC, Navisworks, and Hexagon iConstruct.
- Excellent leadership, communication, and interpersonal skills.
- Mentoring and coaching to other team members.
- Analyze & understand As-Is and To-Be system architecture and customization.
- Engage with ITER team during technical requirement developing and detailing.
- Aid ITER in specifying interfaces specification, interfacing strategy and detailed interface architecture.
- Aid ITER in specifying data migration, migration strategy and high-level design.
- Assist in clarifications for the ITER implementation teams.
- Assist/perform technical implementation teams in analyzing business requirements and contributes to the design.
- Assist team by defining data governance best practices and resolving technical issues.
- Aid the ITER Infrastructure team in installing, deploying, admin V5 (consult).
- Provides input into future software functionality, implementation methodology and customization standards.
- Reviews teamwork products to ensure that they are accurate, consistent, and meet client requirements.

If involved with Dassault Systèmes products, the following experience is expected:

- At least 6 years Catia/Enovia customization experience using CAA libraries.

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- Experience with part/document lifecycle configuration/customization; ENOVIA V5 P&O (People and Organization) management and Rational data modeler.
- Customization experience using CATVBA and CATScript.
- Concept of CATIA Equipment and System (E&S), Mechanical design (MES) and Plant layout module.
- Concept of E&S and Mechanical catalogue management and related customization is added value.

11.1.4. Support Specialist (SUP)

Minimum 6 years of experience in technical support and system troubleshooting within complex engineering tool environments.

Core Responsibilities:

- Act as a transversal support point across the engineering tool landscape, ensuring continuity and reliability of operations across CAD, BIM, GIS, AR/VR/XR, and integration platforms.
- Provide first- and second-level troubleshooting for user-reported issues, including CAD/BIM tool errors, data inconsistencies, and access/configuration problems.
- Monitor the health and availability of engineering tools and environments, proactively identifying performance degradation, failed jobs, or system alerts, and escalating when necessary.
- Perform basic fixes and scripting (e.g., SQL, Python, PowerShell) to resolve recurring issues, automate routine tasks, and support data validation or migration.
- Monitor tool performance and proactively identify potential disruptions in collaboration with DevOps and infrastructure teams.
- Support the configuration and maintenance of user environments, including remote desktop setups (RDS for SSD), workstation readiness, and access to shared platforms.
- Assist in the deployment and validation of updates, patches, and hotfixes across tools such as CATIA V5 R34, ENOVIA V5, Autodesk Construction Cloud.
- Maintain and update support documentation, FAQs, and knowledge base entries to improve self-service and reduce ticket volume.
- Collaborate with developers and system architects to escalate complex issues and contribute to root cause analysis.
- Ensure traceability and transparency of support actions using tools like JIRA, Git/SVN, and Confluence.
- Provide support for GIS tools (QGIS/QWC), including configuration, and basic troubleshooting in coordination with GIS specialists.

Technical Environment Exposure:

- CAD Tools: CATIA V5 R34, AVEVA E3D, SEE Electrical Expert, ISOGEN
- BIM Tools: Navisworks, Hexagon iConstruct, Autodesk Platform Services
- GIS Tools: QGIS / QWC
- AR/VR/XR: GAMMA AR, Techviz, Unity, Unreal Engine, Meta Quest
- Integration & Document Management: ENOVIA V5 R34, EDB, IDM, Autodesk Construction Cloud
- IT Tools: Visual Studio, SQL Server, Oracle, VSCode, Docker, Azure, AKS, GitHub Copilot
- Remote Work: RDS for SSD
- Quality Checking: Q-CHECKER

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If involved with Dassault products services, the following experience is expected:

- At least 4 years of CV5, EV5 or any other CAD/PDM/PLM/BIM/GIS systems customization experience using core libraries / API (CAA for instance CV5/CV6)
- Customization experience using CATVBA and CATScript
- Working knowledge of Dassault Systèmes products such as CATIA V6/V5, DELMIA.

11.1.5. Profile DevOps / System Administrator (OPS)

At least 5 years of experience in system administration covering the various requirements described for the OPS service described in section 5

Major expertise areas expected, and activities of the OPS profile are (but not limited to):

- Extensive experience of Windows server administration (resource monitoring and optimization) with basic knowledge of networking and IT security
- Experience of MS SQL Server and Oracle database administration with knowledge of SQL.
- Experience for automation of system administration task using Python/VBScript/Powershell
- Knowledge of software configuration management tool (Git/SVN) and software release management procedure
- Experience with infrastructure as code (IaC) using tools such as Terraform or Ansible
- Hands-on experience with cloud platforms like AWS, Azure, or Google Cloud Platform (GCP)
- Familiarity with containerization technologies such as Docker and orchestration tools like Kubernetes
- Maintain and monitor the health of the production environments including the partners DA's and suppliers' location
- Maintain the workstations, the development, test and training environments.
- Monitor and maintain of IT infrastructure supporting the CAD/PDM/PLM activities. May require creation of services to automate server's starts.
- Monitoring of replication and other critical background tasks
- Catia workstation management and maintenance
- Timely solution of the IT infrastructures related issues reported by CAD users (second level support).
- Contribute to migration planning and execution
- Customize deployment including the release management and software configuration management
- Deploy the data model customizations, the software packages and hotfixes
- Open service requests when required and coordinating/following up with the software editor (Dassault Systèmes)
- Management and maintenance of other Catia/Enovia V5 environments including development, training and test environment.
- Automate the routine system admin task (including data base back up, replication) Python and VBScript
- Testing the basic functionality on update/ customization deployment

If involved with Dassault Systèmes products services, the following experience is expected:

- At least 3 years of advanced systems administration experience
- Good knowledge of Dassault Systèmes (CATIA, ENOVIA, DELMIA, etc).
- Knowledge of CATIA/Enovia customization using CAA code is added value.

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– Knowledge of Enovia V6 and V5 P &O and data model customization using Rational Data Modeler software is a big plus.

11.2. Description of the technical environment

Information management system: a distributed system consisting of

– **CAD Tools**: CATIA V5 R34, AVEVA E3D 3.1, CATIA V5 (Mechanical + E&S modules), AVEVA Diagrams, SEE System Design IGE+XAO, SEE Electrical Expert, ISOGEN
– **BIM Tools:** Navisworks software suite, Hexagon iConstruct. Autodesk Platform Services
– **Integration and Product Breakdown Management, Document Management**: ENOVIA V5 R34, EDB, SMDD, IDM, Autodesk Platform Service, Autodesk Construction Cloud
– **Catalogs**: SmartPlant Materials, CADENAS
– **Change Management**: PCR system, other embedded workflows
– **Maintenance Management**: SAP PM
– **AR/VR/XR tools**: GAMMA AR, Techviz, Autodesk XR, Meta Quest, Unity, Unreal Engine, Nvidia Omniverse
– **Assembly and Maintenance Simulation**: DELMIA, SYNCHRO PRO
– **CAD Quality Checking**: Q-CHECKER
– **GIS:** QGIS / QWC
– **Remote Work Tools**: RDS for SSD
– **IT tools**: Microsoft Visual Studio, Microsoft SQL Server / Oracle, Apache Tomcat / IBM WebSphere, VSCode, AWX, Terraform, Docker, Nexus, Azure, AKS, Git/SVN, GitHub Copilot, Confluence, JIRA, Bamboo, Windows 11, Windows Server 2019/2022, Microsoft Azure Entra, Active Directory, Office 365 including Teams, Copilot

11.3. Infrastructure requirements

In case of offshore services, the working environment shall be in accordance with the complexity of the task in general, and shall ensure:

– strong internet connection at least 15Mb/s download and 2.5 Mb/s upload to France (test can be performed on http://speedtest.iter.org/)
– individual workstation station with double screen of at least 22 inches diagonal and
– processor at least i7 or equivalent (4 core, 3GHz) and memory at least 16GB, 64bit OS, webcam and headset. accessibility to meeting room equipped with white board and projector for 10 persons

11.4. Meeting Schedule

Meeting Title	Frequency	Activities
Kick Off Meeting	Once	Review project scope, staffing, roles and responsibilities, contractual conditions
Weekly Status Meeting	Weekly	Project Progress, Risk/Issue monitoring. Escalations.
Monthly Status Meeting	Monthly	Overall project status; a summary of key project activity and the associated expenses; statistical volumetric information; a summary of service level performance; a list and a description of major events; risk and Issues status

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11.5. CAD design requirements

This contract does not imply CAD activities.

ANNEX I

EXPRESSION OF INTEREST & PIN ACKNOWLEDGEMENT

To be returned by e-mail to: Kristel.Jeanmart@iter.org copy Kathleen.Reich@iter.org

ITER Organization / ITER Headquarters
Procurement Division
Route de Vinon-sur-Verdon
CS 90 046
13067 St. Paul Lez Durance Cedex
France

TENDER No. **IO/25/OT/70001327/KJT**

DESIGNATION of SERVICES: **IT Engineering Tools Support**

OFFICER IN CHARGE: **Kristel Jeanmart – Procurement Division ITER Organization**

☐ WE ACKNOWLEDGE HAVING READ THE PIN NOTICE FOR THE ABOVE MENTIONED TENDER

☐ WE INTEND TO SUBMIT A TENDER

☐ WE WILL NOT TENDER FOR THE FOLLOWING REASONS:

.....

Signature: COMPANY STAMP

Name: .....

Position: .....

Tel: .....

E-mail.....

Date: .....