

## 185586-2026 - Concurso

### Alemanha – Diamantes industriais – High Pressure High Temperature (HPHT) Diamonds

OJ S 54/2026 18/03/2026

Anúncio de concurso ou de concessão – regime normal

Fornecimentos

## 1. Adquirente

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### 1.1. Adquirente

Nome oficial: European X-Ray Free-Electron Laser Facility GmbH

Correio eletrónico: [tender@xfel.eu](mailto:tender@xfel.eu)

Forma jurídica do adquirente: Organização que adjudica um contrato subvencionado por uma autoridade adjudicante

Atividade da autoridade adjudicante: Educação

## 2. Procedimento

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### 2.1. Procedimento

Título: High Pressure High Temperature (HPHT) Diamonds

Descrição: This tender is adopted with Innovation Partnership Procedure which is a specific procurement method established under EU public procurement law (Directive 2014/24/EU), allowing public contracting authorities/companies to procure R&D services and the subsequent purchase of resulting innovative products, services or works in one integrated process. It is particularly useful when products or solutions do not exist on the market. The high-quality HPHT diamonds themselves are not inherently innovative. However, due to the current political situation, there is a lack of an established supply chain within Europe. The innovation in this case lies not in the material, but in its use: EuXFEL is pursuing the development of a prototype Diamond Double-Crystal Monochromator (Diamond DCM) using HPHT diamond, which provides significantly better thermal conductivity and quality than available CVD diamonds. Although silicon-based DCMs are already commercially available, diamond-based equivalents have not yet reached the market. Single Procedure: Combines R&D and subsequent commercial procurement, avoiding the need for a separate tender once the innovation is developed.

Identificador do procedimento: 881cfa1c-db41-47e9-983f-f323f2f52d4c

Tipo de procedimento: Parcerias para a inovação

#### 2.1.1. Finalidade

Natureza do contrato: Fornecimentos

Classificação principal (cpv): 14522200 Diamantes industriais

#### 2.1.2. Local de execução

Subdivisão do país (NUTS): Pinneberg (DEF09)

País: Alemanha

#### 2.1.4. Informações gerais

**Base jurídica:**

Diretiva 2014/24/UE

vgv -

### 2.1.6. Motivos de exclusão

Fontes dos motivos de exclusão: Documento do concurso

## 5. Lote

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### 5.1. Lote: LOT-0001

Título: High Pressure High Temperature Diamonds

Descrição: Phase 0 : Call for Competition -Request to participate, stating their understanding of the technical specifications and the expectation from EuXFEL, the expected results, milestone achievements, and the requested achievable timeframe for each phase, as well as agree the overall production plan and estimated timeline at the final phase 4, details as stated in the tender documents (Technical Specification). -Bidders must provide a concise description confirming compliance with the technical specifications including the tolerances, requested project timeline and reporting period/time frame outlined in this document. If any required parameters cannot be met, the contractor must explicitly state so in the offer, along with details of the achievable parameters. -Initial offer must be submitted based on the requirements stated on the “High Pressure High Temperature (HPHT) Diamonds” specification, under 1.2 “Diamond plates specification”- “General Geometrical and Material Specifications”, as informational purpose only -Complete & Sign Tender Forms Phase 1: Initial Development and Screening In this phase, maximum five (5) bidders will be selected from Phase 0 must each deliver one (1) diamond plate together with technical report in accordance with the requirements defined below. The delivered plate shall be characterized and submitted for evaluation by EuXFEL. EuXFEL reserves the right to shortlist fewer than five (5) bidders for this stage if one or more bidders do not meet the selection criteria for this phase. Phase 2: Process Optimization The objective of this phase is the optimization of the diamond growth and processing process to achieve a larger defect-free area while minimizing lattice strain. In this phase, the suppliers selected following Phase 1 must each deliver two (2) diamond plates with (100) crystallographic orientation with technical report on the requested timeframe in accordance with the requirements defined below. The delivered plates shall be characterized and submitted for evaluation by EuXFEL. Phase 3: Advanced Development for (110) Orientation The objective of this phase is the development and delivery of a high-quality diamond plate with (110) crystallographic orientation, which represents a more technically demanding configuration compared to the (100) orientation. In this phase, the suppliers selected following Phase 2 shall each deliver one (1) diamond plate in accordance with the requirements defined below. The delivered plate shall be characterized and submitted for evaluation by EuXFEL. If the analysis results of the 3rd crystal plate from any 2 or more than 2 bidders are identical. EuXFEL will request the bidders to submit their offers of the 4th plate of crystals with the final agreed specification at the end of Phase 3 for comparison, instead of at the beginning of Phase 4. Phase 4: Final Supply and Integration of the plates to the monochromator Delivery of two (2) diamond plates (100) oriented and two (2) diamond plates (110) oriented. Only 1 supplier will be selected on Phase 4. The selected bidder must submit the final offer at this phase. The price quoted on the final offer must be in Euro fix, not subject to escalation or variation. The price must include design, probing & testing, classification if applicable, technical report, delivery to the premises of EuXFEL and include all labeling, packaging and insurance as well as factory acceptance tests (FAT), but exclude Value Added Tax (VAT) as well as customs duties. By submitting the final offer, the terms and conditions of this innovation partnership procedure are accepted.

Identificador interno: LOT-0001 XRO-CT32310

#### 5.1.1. Finalidade

Natureza do contrato: Fornecimentos  
Classificação principal (cpv): 14522200 Diamantes industriais

#### 5.1.2. Local de execução

Subdivisão do país (NUTS): Pinneberg (DEF09)

País: Alemanha

Informações adicionais: None

#### 5.1.3. Duração estimada

Outra duração: Desconhecido

#### 5.1.6. Informações gerais

##### Participação reservada:

A participação não está reservada.

Projeto de contratação pública não financiado por fundos da UE

O concurso é abrangido pelo Acordo sobre Contratos Públicos (ACP): não

Este concurso também é adequado para as pequenas e médias empresas (PME): sim

Informações adicionais: #Besonders auch geeignet für:freelance#, #Besonders auch geeignet für:startup#, #Besonders auch geeignet für:other-sme#, #Besonders auch geeignet für:selbst#

#### 5.1.7. Contratação estratégica

Objetivo da contratação estratégica: Aquisição inovadora

Descrição: This tender is adopted with Innovation Partnership Procedure which is a specific procurement method established under EU public procurement law (Directive 2014/24/EU), allowing public contracting authorities/companies to procure R&D services and the subsequent purchase of resulting innovative products, services or works in one integrated process. It is particularly useful when products or solutions do not exist on the market. This tender includes Phase 0 to Phase 4. The high-quality HPHT diamonds themselves are not inherently innovative. However, due to the current political situation, there is a lack of an established supply chain within Europe. The innovation in this case lies not in the material, but in its use: EuXFEL is pursuing the development of a prototype Artificial Channel-Cut Monochromator (ACCM) using HPHT diamond, which provides significantly better thermal conductivity and quality than available CVD diamonds. Although silicon-based ACCMs are already commercially available, diamond-based equivalents have not yet reached the market. Single Procedure: Combines R&D and subsequent commercial procurement, avoiding the need for a separate tender once the innovation is developed.

Contratos Públicos de Inovação: As obras, fornecimentos ou serviços adjudicados envolvem atividades de investigação e desenvolvimento.

#### 5.1.9. Critérios de seleção

Fontes dos critérios de seleção: Documento do concurso

##### Informações sobre a segunda fase de um procedimento de concurso em duas fases:

Número mínimo de candidatos a convidar para a segunda fase do procedimento: 3

Número máximo de candidatos a convocar para a segunda fase do procedimento: 5

O procedimento irá decorrer em fases sucessivas. Em cada fase, alguns participantes podem ser eliminados

#### 5.1.10. Critérios de adjudicação

##### Critério:

Tipo: Qualidade

Descrição: Selection criteria for Phase 0: Phase 0 - Selection suitability criteria for invitation for next Phase (Phase 1): A total of 100 points can be achieved when evaluating references.

References (3 References – experience as a company in projects of similar characteristics within the last ten years stated on the Tender Forms) are evaluated by comparing applicants with each other based on the following scale/grading system. The maximum number of points is multiplied by the respective weighting factor (percentage)– multiplied by the respective weighting factor (percentage). - 100% = very good: The applicant meets the requirements for the suitability criterion to the highest degree, - 80% = good: Applicant meets the requirements for the suitability criterion to the highest degree, - 60% = fully satisfactory: The applicant meets the suitability criteria to a high degree to a high degree, - 40% = satisfactory: Applicant meets the requirements for the suitability criterion to a sufficient degree, - 20% = adequate: Applicant meets the requirements for the eligibility criterion to a barely sufficient degree. In the range between 0% and 100%, intermediate values can be formed to take into account a tendency toward the higher grade level (10%, 30%, 50%, 70%, 90%), which be assigned to the respective grade level with the straight percentage below it. An assessment of an aptitude criterion (performance or expertise) with 10% would correspond to a complete failure to meet the respective suitability criterion, which would result in the exclusion of the application for participation (knockout criterion). The above criteria are suitability criteria, not award criteria. EuXFEL aims to select maximum 5 bidders/applicants in Phase 1. If no 3 bidders/applicants are similarly qualified in terms of meeting the minimum requirements or total points, only those applicants who are sufficiently suitable will be included. If several applicants/bidders achieve the same total score and the number of applicants/bidders exceeds the planned number to be invited to the next phase, EuXFEL reserves the right to select among the remaining applicants with the same score by drawing lots. These criteria will be used to determine which applicants will be invited to the next phase of the process.

#### **5.1.11. Documentos do concurso**

Línguas em que os documentos do concurso estão oficialmente disponíveis: inglês

Endereço dos documentos do concurso: <https://www.subreport.de/E29531557>

#### **5.1.12. Condições do concurso**

##### **Condições de apresentação:**

Apresentação por via eletrónica: Necessário

Endereço para apresentação: <https://www.subreport.de/E29531557>

Línguas em que podem ser apresentadas as propostas ou pedidos de participação: alemão

Catálogo eletrónico: Não autorizado

Variantes: Não autorizado

Os proponentes podem apresentar mais do que uma proposta: Não autorizado

Prazo para a receção dos pedidos de participação: 20/04/2026 12:00:00 (UTC+02:00) hora da Europa Oriental, hora de verão da Europa Central

##### **Informações que podem ser completadas após o prazo de apresentação:**

Ao critério do comprador, todos os documentos em falta relacionados com o proponente poderão ser apresentados posteriormente.

Informações adicionais: None

##### **Condições do contrato:**

A execução do contrato tem de ser efetuada no âmbito de programas de emprego protegido: Não

Faturação eletrónica: Permitido

Serão utilizadas encomendas eletrónicas: sim

Será utilizado o pagamento eletrónico: sim

#### **5.1.15. Técnicas**

##### **Acordo-quadro:**

Inexistência de acordo-quadro

**Informações sobre o sistema de aquisição dinâmico:**

Inexistência de sistema de aquisição dinâmico

**5.1.16. Informações adicionais, mediação e recurso**

Instância de recurso: Vergabekammer des Bundes beim Bundeskartellamt Registration number: +49 022894990 Country subdivision (NUTS): Bonn, Kreisfreie Stadt (DEA22)

Country: Germany Roles of this organisation: Review organisation Mediation organisation

Informações sobre os prazos de recurso: The legal regulations applied

Organização que fornece mais informações sobre os procedimentos de recurso: European X-Ray Free-Electron Laser Facility GmbH

## 8. Organizações

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**8.1. ORG-0001**

Nome oficial: European X-Ray Free-Electron Laser Facility GmbH

Número de registo: DE815117472

Endereço postal: Holzkoppel 4

Cidade: Schenefeld

Código postal: 22869

Subdivisão do país (NUTS): Pinneberg (DEF09)

País: Alemanha

Correio eletrónico: [tender@xfel.eu](mailto:tender@xfel.eu)

Telefone: +49 (0)40 8998-6768

Endereço Internet: <https://www.xfel.eu>

**Funções desta organização:**

Adquirente

Organização que fornece mais informações sobre os procedimentos de recurso

**8.1. ORG-0002**

Nome oficial: Vergabekammer des Bundes beim Bundeskartellamt Registration number: +49 022894990 Country subdivision (NUTS): Bonn, Kreisfreie Stadt (DEA22) Country: Germany

Roles of this organisation: Review organisation Mediation organisation

Número de registo: Telephone: +49 22894990

Cidade: Bonn

Código postal: 53113

Subdivisão do país (NUTS): Bonn, Kreisfreie Stadt (DEA22)

País: Alemanha

Correio eletrónico: [vk@bundeskartellamt.bund.de](mailto:vk@bundeskartellamt.bund.de)

Telefone: +49 22894990

**Funções desta organização:**

Instância de recurso

**8.1. ORG-0003**

Nome oficial: Datenservice Öffentlicher Einkauf (in Verantwortung des Beschaffungsamts des BMI)

Número de registo: 0204:994-DOEVD-83

Cidade: Bonn

Código postal: 53119

Subdivisão do país (NUTS): Bonn, Kreisfreie Stadt (DEA22)

País: Alemanha

Correio eletrónico: [noreply.esender\\_hub@bescha.bund.de](mailto:noreply.esender_hub@bescha.bund.de)

Telefone: +49228996100

**Funções desta organização:**

TED eSender

## Informações sobre o anúncio

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Identificador/versão do anúncio: 0dbe963b-28bf-4873-aac4-a10503b6e24b - 01

Tipo de formulário: Concurso

Tipo de anúncio: Anúncio de concurso ou de concessão – regime normal

Subtipo de anúncio: 16

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