



**FUSION
FOR
ENERGY**

**Big Science
Business
Forum
2022**

I&C for ITER in collaboration with European Industry

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I&C Group Leader

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Bringing
the power
of the sun
to earth

Plant Instrumentation

Plant **C**ontrol & **P**rotection

Interface to central control: **CODAC**

Qualification of components for Safety



Management & System engineering:

- *F4E Project Team*
- *F4E I&C Group*
- *I&C support contract*

Development:

- *Main suppliers of Plant Systems*
- *F4E I&C Integrator contract*
- *F4E Nuclear I&C Integrator contract*
- *Electronic Design contract*
- *BTP I&C implementation contracts*

- Industrial I&C Development experience
- Scientific I&C Development experience
- Nuclear I&C Development experience
- Development of Electronics
- ITER standard development libraries
 - CODAC Core System
 - Unified Control Library
 - MARTe
- Experience in high quality software development

OPE-1273 cost range **B**

- 14 full size I&C cubicles
- 17 wall mounted electro-pneumatic enclosures
- 17 wall mounted electro-pneumatic enclosures – (Nuclear safety)
- Build to print
- Specific quality requirements to be followed.

Expect call in Q4 2022 SOON!

OFC-989 cost range **C** awarded to **GTD**

- 7 years long – until 2026
- **requires knowledge of ITER I&C technologies**
- requires experience of system integration
- design of I&C Systems
- small scale manufacturing

Expect renewal call in Q4 2023 – Q1 2024.

(Contract ceiling will be reached earlier.)

OFC-1015 cost range **C** awarded to **LEONARDO**

- Frame contract
- 7 years long
- highly skilled I&C engineering support in F4E-BCN
- System Engineering
- Electronic Engineering
- Experience in I&C System design

Expect renewal call in 2026.

OFC-1016 cost range **C** awarded to **JACOBS**

- Frame contract
- 7 years long
- Nuclear I&C experience
- I&C qualifications to nuclear standards
- Skilled engineering support to F4E-Cadarache
- Design of Nuclear I&C systems

Expect renewal call in 2026.

OFC-1087 cost range **C** awarded to **ALTER**

- Frame contract
- 7 years long Electronics Design
- Assembling & Manufacturing
- Prototyping
- EMC Qualification

Expect renewal call in 2027.



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Thank you for your attention

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