

I.FAST WP 2.4

Industrial Trainee Programme

Tord Ekelöf
Uppsala University



Innovation Fostering in Accelerator Science and Technology

I.FAST Traineeship Programme

Please fill in and send by latest 1 April 2022 the submission form here below to Tord.Ekelof@physics.uu.se and Antoine.le.gall@cern.ch

Introduction

The EU-supported project [I.FAST](#) announced a traineeship programme to support knowledge transfer of new component technologies between laboratories and industry.

The programme offers the opportunity for an early-career engineer or technician working at a European industrial company to work as trainee at one of the I.FAST [European Accelerator Development Laboratories](#) for a duration of 2 weeks to 3 months. The traineeship will put emphasis on knowledge transfer in the development, design and testing of new advanced technological components for frontline accelerator and magnet research infrastructures.

The programme covers the costs for the duration of the traineeship of:

- Salary
- Travel
- Subsistence

Application process

The proposal shall be submitted by the Industrial Company and the I.FAST Laboratory in common and describe on one or two pages:

- The project and the technology with which the industrial engineers and technicians shall work at the I.FAST Laboratory;
- How this work will lead both to training of the engineer or technician and transfer of knowledge of new component technology from the I.FAST Laboratory to the Industrial Company;
- How the Industrial Company intends to make use of the knowledge thus acquired for its business.

The deadline for application is **1 May 2022**

Selection process

The applications shall be judged by an I.FAST Expert Selection Committee based on:

1. Relevance of the interest of the Company to acquire the knowledge and experience of the technology.
2. Professional merits of the proposed engineer or technician.
3. Level of knowledge and experience of the I.FAST Laboratory and, in particular, of the intended trainee supervisor at the Laboratory for the proposed project and the associated component technology.
4. The quality and effectiveness of the training program being proposed.
5. Consistency between the proposed training activity with the amount of salary, travel and subsistence support requested for the trainee and the proposed duration.
6. The expected outcomes of the technology transfer of the trainee project.
7. The terms of the training will be regulated through a written agreement between the I.FAST Laboratory and the Industrial Company.

At the conclusion of the trainee secondment, the Laboratory and the Company shall together submit a report on the outcome of the training period to the Expert Selection Committee.

The written proposal should be submitted by email to:

- The I.FAST Task 2.4 Chair, prof. Tord Ekelof (Tord.Ekelof@physics.uu.se) with copy to Antoine Le Gall (Antoine.le.gall@cern.ch).

A decision will be communicated to the proponents within 3 months of submission of a proposal.

Application form to be submitted before 1 April 2022 to

Tord.Ekelof@physics.uu.se and Antoine.le.gall@cern.ch

Date:

<i>I.FAST Laboratory</i> Name: Address: Name of the representative Role: Email:	<i>Industrial Company</i> Name: Address: Name of the representative Role: Email:
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<i>Proposed industrial trainee</i> Name: Email:

1. **Description of the project and the technology with which the industrial engineers and technicians shall work at the I.FAST Laboratory.**

Text

2. **Description of how this work will lead both to training of the engineer or technician and transfer of knowledge of new component technology from the I.FAST Laboratory to the Industrial Company.**

Text

3. **Description of how the Industrial Company intends to make use of the knowledge thus acquired for its business.**

Text

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In Accelerating News
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I.FAST WP2 memembr list
I.FAST WP3 Industrial contacts list
I.FAST WP13/AMICI members list
TIARA members list

Budget: 50kEuro total for 2 years)

Dear Tord,

Frank [Stulle] forwarded this information and I really appreciate the idea.

Bergoz Instrumentation is a small company, and if we already invest a lot of time and resources in R&D, I am also very interested in transferring technology/new product within our industrial and Sales activity, enlarging our portfolio as well as our know-how and expertise. saying that, how can I know the possible new advanced technological components for frontline accelerator and magnet research infrastructures ? Do you know any list of such developments? Or should I contact, on behalf of your email herebelow, each institute?

thank you very much in advance for your advice

best regards

Etienne Touzain

CEO Bergoz Instrumentation, Saint Genis Pouilly

2022-05-04



2022-01-16

I.FAST Traineeship Programme between:

I.FAST Laboratory
FREIA/ Uppsala universitet
Lägerhyddsvägen 1
751 20 Uppsala
Sweden

Industrial Company
Leijenaar Electronics
Dionisiusstraat 9
5808 CA Oirlo
The Netherlands

*By the following, **Dragos Dancila at FREIA/Uppsala University** and **William Leijenaar at Leijenaar Electronics** herewith propose to the **I.FAST Traineeship Programme** the industrial trainee programme outlined below and apply for a grant of 6000€ for its support.*

Description of the project and the technology with which the industrial engineers and technicians shall work at the I.FAST Laboratory.

The proposed traineeship in the FREIA Laboratory at Uppsala University of Mr. William Leijenaar, former engineer at the Ampleon semiconductor company in the Netherlands and founder of his own technical consulting company, regards the development of a 400-kW solid-state power amplifier (SSPA) station that we are presently developing at the FREIA laboratory. This project covers different aspects of large power radiofrequency (RF) stations: solid state power transistors (an SSPA with a total of 1.5 kW power will be realized), power combiners and controls and is of high relevance for the trainee and his...

The proposed training activity is to take an active part in the development and test of the large SSPA that we are currently building at FREIA, with a focus on the kilowatt transistor module development and industrialization. For this two one-week periods of trainee-ship at the FREIA Laboratory are foreseen. The salary required will be 350€ per day, i.e. 3500 € in total and the daily subsistence support 150 € per day, i.e. 1500 € in total. The travel costs are estimated at 500 € per round trip, i.e. 1000 € in total. Together these costs amount to 3500 + 1500 + 1000 € = 6000 € for which we herewith apply for support from the I.FAST

I.FAST Collaboration Meeting - Traineeship Programme.

Tord Ekelof

Uppsala University

Some comments....

Dear Tord

We contacted 3 companies 2 SMES and one large company working in the field of superconducting magnet, RF development or cryomodules. We proposed them the program.

They replied that they have no manpower availability to distract technicians and engineers in the lab for à such short period..

The training we propose, must be for them directly related to their own needs in the short term, to feed their present programs and it was not the case. I do not see during our exchanges a long term vision for training in these companies.

Best Regards
Pierre Verdrine

2022-05-04

Dear Tord.

Just to confirm that my people at CIEMAT made a distribution of this call to Spanish companies some weeks ago. We had conversations with some of them. They showed some interest, but we see that they did not go through.

I confirm you that we will do a second iteration as soon as possible, insisting on this opportunity.

All the best

Josemanuel Perez