

## Associate or Full Professor Position in Statistics and Data

### **Context**

ISAE-SUPAERO is a world leader in aerospace engineering higher education. It offers high-level multidisciplinary training programs in which the system's dimension is central. These programs cover a large spectrum of domains that reach beyond aerospace, including for instance energy, autonomous systems and decision science. Research conducted at ISAE-SUPAERO focuses on the same application domains.

The Department of Complex Systems Engineering (DISC) develops skills in mathematics and computer science for the aerospace industry. In teaching and research, it focuses on models, methods and tools necessary to control the behavior and performance of complex systems. This complexity can be induced by the multi-scale or multi-physical nature of these systems, their dynamical behavior, or their distributed and communicating structure. These systems generate data flows that are becoming increasingly important in the aerospace industry. The Department of Complex Systems Engineering develops methodological research in this domain, as well as applications in collaboration with the other departments and academic and industrial partners.

In this context, ISAE-SUPAERO recruits a professor in statistics and data, whose duties and profile are described next.

### **Teaching duties**

The recruited Professor will participate to the full span of ISAE-SUPAERO training programs: «Ingénieur ISAE-SUPAERO», Master of Science in Aerospace Engineering, Advanced Masters, apprenticeship training program, continuing education programs. He/she will actively develop the programs' contents related to statistics, and also participate in the evolution of these programs. In the mid-term, he/she will take organizational responsibilities within these programs. His/her mission includes:

- Organize and take part in the teaching of applied mathematics in the various programs of ISAE-SUPAERO, with a focus in probability and statistics in the engineering curriculum;
- Participate in developing the applied mathematics programs of ISAE-SUPAERO;
- Tutor student projects in the different stages of their training (Bachelor, Master, final projects...), both inside ISAE-SUPAERO and externally, in the framework of cooperative industrial or research agreements;
- Take on transversal administrative responsibilities within the various programs of ISAE-SUPAERO.

### **Research duties**

The recruited Professor will conduct high-level research in mathematical statistics within the Applied Mathematics group of the Department of Complex Systems Engineering (DISC). His/her research domains are open. He/she will work on methodological and algorithmic problems in line with ISAE-SUPAERO's research activities in the area of data processing. His/her mission includes:

- Establish scientific collaborations within the Applied Mathematics group, with the other research groups of the Complex Systems Engineering Department or with other departments;
- Contribute to the visibility and dissemination of ISAE-SUPAERO's research by the publication in top-ranked journals, participation in conferences, international scientific societies, and more generally by participating in the local, national and international research ecosystem;

- Supervise interns and PhD students;
- Apply to regional, national and international research grants.

### **Profile**

The candidate will hold a PhD in statistics or a related discipline. He/she has demonstrated his/her research potential through his/her publication record, as well as his/her taste for applications and his/her ability to successfully integrate in a research team. A post-doctoral experience coupled with a geographic and thematic mobility will be appreciated.

The candidate has a successful teaching experience, a taste for teaching and is willing to involve himself/herself in an ambitious educational project.

Candidates are encouraged to contact the department's research teams to define their academic project and learn more about current topics of interest.

The hiring salary will depend on his/her past experience.

### **Contact**

- Alain Hait (Department chair), [alain.hait@isae-supaero.fr](mailto:alain.hait@isae-supaero.fr)
- Florian Simatos (Full Professor, Probability and Statistics), [florian.simatos@isae-supaero.fr](mailto:florian.simatos@isae-supaero.fr), +33 5 61 33 81 03
- Christie Dubourg (Human Resources), [recrutement-isae@isae.fr](mailto:recrutement-isae@isae.fr), +33 5 61 33 82 56

Send a resume, a cover letter and a presentation of teaching and research project and experience to (reference: fiche de poste ISAE-530):

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**Application deadline: june 4<sup>th</sup>, 2018**