École nationale
de la statistique
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Objet **APPLIED STATISTICAL INTERNSHIP (END OF THE SECOND YEAR)**

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Compulsory Internship to be carried out in France or abroad

The second-year Internship for engineering students is part of the pedagogical program at the school. It is an Applied Statistical Internship that the students are required to complete within a business in the competitive sector, a public or private research center, local administration or authority.

Degree

The Applied Statistical Internship will be carried out in France or abroad. In the latter case, the internship will also satisfy the 4-week minimum **required period abroad** (or the POE; please refer to the conditions in the international guide).

Objectives

The essential aim objective of this internship is to ensure the practical application of the educational training dispensed at ENSAI during the first and second years, particularly in the statistical field. It is mandatory for the internship subject to contain a specific task, or an investigation question, which the context of the internship (data availability and statistical supervision) allows for the intern to work on and to respond to in a suitable environment.
When completed abroad, additional aims for this internship include:

- To discover another social and professional culture
- To deepen one's knowledge of a foreign language

Intern status

During the entire internship, the intern remains a student registered at the school. The host organization names an Internship Supervisor to closely follow the intern from a technical point of view and to optimize the conditions in which the internship is carried out.
ENSAI may summon the intern in order to take possible re-sit examinations, which take place during the summer.

Duration

The internship must last for a minimum of 8 weeks between the end of May and the end of August.

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Insertion in the Curriculum

In a manner of speaking, the Applied Statistical Internship 'confirms' the skills of a general statistician normally acquired by all students upon finishing their second year at the school. It is part of the professional path of the student who will apply the teaching acquired at ENSAI during the internship in a practical, professional setting.

Content: Theme, or Subject Matter

The internship must be of a last-year undergraduate or first-year graduate level (equivalent to 4 years of post-secondary education, or a first-year Master's level). No relation between the subject matter of the internship and the choice of the 3rd year specialization will be imposed, unlike the End-of-Studies Internship. However, for this Applied Statistical Internship, there must be guarantees that the student will use statistical methods previously taught in the second academic year.

This internship at the end of the second year must be designed in such a way as to allow the student to carry out, finalize, and improve the plans of action associated with the given tasks during the internship. The work of the student must hinge on answering the specific task or investigation question set out in the Internship Agreement. The internship must also be the occasion for students to put themselves in an authentic, professional setting.

Internship Report

At the end of the internship, students must complete an internship report in French or in English (12 to 15 pages, appendices not included). The intern is to use the standard cover page found in the internship guide.

Following a general introduction, the first part (2 pages maximum) will be dedicated to the professional environment (description of the host organization, main activity, size, description of host department/service, organization and distribution of work…). Then, the main body of the report will describe the task, the statistical methods called upon, the main results and their future utility within the host organization. In the conclusion, the student must state to what extent the objectives were met that were the driving factors behind the intern's work and the answers that this work allowed for. It should also be indicated whether further work or progress could be made and to give indications for improvement.

In general, the personal contribution of the intern must be clearly identifiable. The technical and methodological aspects must be presented with care, so that the jury is convinced of the experience's positive effects and the quality of the work carried out. The intern is also asked to put aside their more technical habits as a statistician in order to translate their results into pragmatic proposals, or recommendations for action, for the host organization; the aforementioned conclusion is aimed at the final recipients who, at this stage, will expect help from the intern in their decision-making.