

✉. eloi.besnard@ensta-paris.fr
☎. +33 7 83 67 76 20
🌐. Github/OsgoodSchlatter
🌐. LinkedIn/Eloi Besnard
🌐. https://osgood.pro

Eloi BESNARD

Master of Science Nuclear Energy
Final year internship
April/September 2025



Engineer in computer science, I am expanding my knowledge to nuclear energy through a second master of science. I am looking for my **final year internship** in **neutronic or reactor physics** starting at the **beginning of April 2025**.

1. Education

2023-2025 - MSc. Nuclear Energy, ENSTA (Saclay, France)

Ongoing Master of Science in **nuclear energy** from ENSTA. This master was created and is sponsored by **EDF**. Specialized in **reactor physics** and **neutronic** (NRPE track).

Topics studied : reactor physics, neutronic, nuclear physics, interaction of radiation with matter, materials science, thermo and fluid dynamics, radioprotection, energy production technologies, quantum mechanics, electrical power engineering and mathematics.

Contact : Anne-Lise GLOANEC, anne-lise.gloanec@ensta-paris.fr

2020-2023 - MSc. Computer Science, Télécom SudParis (Saclay, France)

Graduated in **Master in Computer Science** from engineering school Télécom SudParis.

Topics studied : high performance computing, cryptography, distributed systems, operating systems programming.

Proficiency in C, Python, Git, Linux, MPI, openMP.

2018-2020 - Classes Préparatoires, St Stanislas (Nantes, France)

French equivalent of bachelor in maths and physics classes to prepare for French engineering schools' competitive exams. Rank on Mines-Telecom : 1200/5000.

Topics studied : Mathematics, physics, chemistry, computer science.

2. Internships

2024 - Neutron Instrumentation, Photonis (Brive-La-Gaillarde, France)

5 months internship at Photonis, european leader in nuclear instrumentation manufacturer.

Assignment : Study of the impact of temperature on gaseous neutron detectors (fission chambers and boron-lined proportional counters).

Topics : Interaction of radiation with matter, neutronic, nuclear physics, materials science.

Contact : Axel RIZZO, a.rizzo@exosens.com ; Kevin IRAZOQUI, k.irazoqui@exosens.com

2023 - Software Engineer, CEA (Saclay, France)

5 months internship at CEA-Saclay, Alternative Energies and Atomic Energy Commission.

Assignment : Implementation of a decentralized application for green energy certificates. My work [here](#).

Topics : distributed systems (blockchain, smart contracts), cryptography (homomorphic encryption).

Contact : Sara TUCCI, sara.tucci@cea.fr ; Antonella DELPOZZO, antonella.delpozzo@cea.fr

2022 - Software Developer, Carbometrix (Paris, France)

Second year internship of 3 months in French start-up that computes companies' carbon footprint.

Assignment : Developing a software to compute carbon footprint.

Topics : data bases, front-end and back-end development. Use of Typescript.

2021 - I.T. Audit, Foch Hospital (Paris, France)

First year internship in Foch Hospital, in nephrology department.

Assignment : Study of general information flow in the department.

3. Publications

1) Henry, T., Hatin, J., Besnard, E. et al. Towards trustworthy and privacy-preserving decentralized auctions. J BANK FINANC TECHNOL (2024).

4. Extra-curricular activities

Ongoing - Volunteering in climate change association (Paris, France)

Organizing events in Paris to popularise and talk about energy savings that can be done at home. This is done with the association *Les Economes*.

2024 - Music Summer Classes, ICMP (London, UK)





I took singing and music performance classes in London for a week during summer 2024 at the **Institute of Contemporary Music Production**.

2023 - Workaway Experience (Sala, Sweden)

In order to validate my engineering degree I had to spend a month and a half abroad. I refurbished a house in the countryside of Uppsala, in Sweden.

2022 - Tutoring (Paris, France)

I gave maths and physics courses to young students. I also gave free French classes to Sudanese refugees.

What I like to do in my free-time :     

I play, tune and fix pianos. I play the guitar and I sing. I play a lot of chess, I workout and I am committed against climate change. I also love the sea, sailing and surfing.