(1) Internship Title: Solar Energy Engineering Intern
Internship focus: Solar Energy Engineering & System Design
Location: Uppsala, Sweden
Duration: 4–12 months
Start Date: January 2026

About the Internship:
Join a dynamic research team committed to advancing **sustainable energy technologies** and supporting the goals of the **European Green Deal** and **United Nations Sustainable Development Goals (SDG 7: Affordable and Clean Energy, SDG 9: Industry, Innovation & Infrastructure, and SDG 13: Climate Action)**.
This internship offers the opportunity to contribute to the design, optimization, and performance analysis of **solar energy systems** — including **photovoltaic (PV), solar thermal, and hybrid photovoltaic-thermal (PVT)** technologies — that drive Europe's transition to a clean, resilient, and carbon-neutral energy future.

Your Mission:
As a **Solar Energy Engineering Intern**, you will actively participate in both **applied research** and **engineering development**, working on tasks such as:

- **Design & Simulation:** Support mechanical, thermal, and electrical design of solar energy systems using tools like **COMSOL, OpenFOAM, or MATLAB/Simulink**.
- **Performance Analysis:** Conduct experimental or simulation-based evaluations of energy efficiency, heat transfer, and system optimization.
- **System Integration:** Contribute to the development of **balance of system (BoS)** and **balance of plant (BoP)** components for solar installations.
- **Sustainability Assessment:** Assist in evaluating the environmental and economic performance of solar technologies, linking engineering outcomes to **sustainability metrics** and **LCA/LCC frameworks**.
- **Prototyping & Testing:** Participate in laboratory-scale prototyping (e.g., 3D printing, sensor integration) and data acquisition.
- **Technical Documentation:** Prepare reports, design documentation, and presentations to support internal R&D and academic dissemination.

Required Profile

- **Education:** Bachelor's or Master's student in Mechanical, Energy, Electrical, or Mechatronics Engineering (or related discipline).
- **Technical Skills:** Knowledge of solar energy systems, thermodynamics, heat transfer, or CFD modeling; familiarity with CAD tools (SolidWorks, Inventor) and/or simulation software (COMSOL, OpenFOAM, MATLAB).
- **Soft Skills:** Analytical mindset, motivation for research, and passion for renewable energy innovation.

Why Join Us?

- **Contribute** directly to **Europe's clean energy transition**.
- Gain **hands-on experience** in both **research and engineering design**.
- Work with experienced mentors in a **collaborative and international environment**.

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- Develop skills aligned with **EU Green Vision and future green jobs**.

Learning Outcomes:
This internship offers a balance of **technical training and research experience**, allowing you to:

- Strengthen your skills in **computational fluid dynamics**, **mechanical and optical design**, and **renewable energy systems**.
- Gain hands-on experience with **state-of-the-art simulation and prototyping tools**.
- Contribute to **research publications** or conference presentations.
- Work within a **collaborative European research environment**, aligning with sustainability and innovation objectives under the EU Green Vision.