Active Electronically Scanned Array antennas (AESA or active antennas) are phased array systems in which the beam of signals can be electronically pointed in any direction, with no physical movement of the antenna. AESAs are today seen as the future for telecommunication and radar, both in space-borne and ground/airborne systems. As the market goes towards higher frequencies, new manufacturing technologies such as 3D printing appear as avenues to improve the performance and conceive the next generation of AESAs.

The laboratory IETR, INSA Rennes is glad to announce open PhD and Post-doc research positions to develop radiating panels for next generation AESAs, as well as to elaborate in the systems in which these radiating panels will be used. The research will be performed in an academic-industrial environment, with strong support and involvement from the company SWISSto12 and the co-supervision of the European Space Agency.

**Laboratory and location:** IETR, site Institute National de Sciences Appliquées, Rennes, France

**Main supervisor:** Maria GARCÍA VIGUERAS, associate professor INSA Rennes.

**Type of contract:** PhD (3 years) or Post-doc (1,5 years), starting date from June 2022.

**Requirements of the applicant:**
- **Post-doc:** hold a PhD degree in a discipline related to the analysis and design of RF systems. Experience in any of the following topics is a must: antennas, passive RF equipment, active RF equipment or digital beamforming.
- **PhD:** hold a MSc degree or equivalent in Electrical Engineering, Telecommunications Engineering or Physics. MSc or an internship in RF systems is a plus.
- Fluent in English. French as second language is a plus.
- European/Suisse citizenship is not strictly required but is preferred.

**How to apply:** Send a mail to maria.garcia-vigueras@insa-rennes.fr with a motivation letter and your resume. References are appreciated but not necessary.