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**UNIVERSITÄT
BERN**

The Institute of Applied Physics at the University of Bern is searching for a

Postdoctoral Fellow (80-100%) Radar Cross Section (RCS) Simulation and Measurement

The microwave remote sensing division develops passive millimeter-wave radiometers for atmospheric research from ground-based or space borne instruments. It uses also radar sensors for remote sensing of precipitation, clouds and meteors. Other research topics include the development of microwave absorbing materials and the simulation of radar signatures.

Job description

Your main tasks will be electromagnetic simulations of radar cross section (RCS) and micro-Doppler signatures of consumer-grade UAVs and wind turbines, as well as participation in RCS measurements in an anechoic chamber and outdoors. You will also contribute to the other research topics of the group, including material and antenna measurements for different space projects.

Your profile

You have a PhD degree or similar industrial experience in electrical engineering or physics. A background knowledge in numerical high frequency electromagnetic simulations (e.g. HFSS or CST) is expected. Further experience with RCS modeling, radar signal processing, or 3D CAD tools would be helpful, but are not mandatory. A high level of written and spoken English is required. German language skills would be an advantage, but are not required. You enjoy working in an interdisciplinary and multinational research environment.

The position is available immediately with an initial duration of 2 years. Applications will be accepted until the position is filled. Starting salary will be between 88'000 and 117'000 CHF per year, depending on your previous work experience. The University of Bern supports diversity and gender equality, and it offers attractive working conditions.

Applications (including CV, list of publications, diplomas, addresses of referees) or questions regarding the position should be sent by email to Dr. Axel Murk (axel.murk@unibe.ch).

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