

Interested in helping to shape the world of tomorrow?

The Fraunhofer Institute for Integrated Circuits IIS has an immediate opening in the Integrated Energy Supply Group of the Power Efficient Systems Department in Nuremberg for a

Research Intern in the area of energy harvesting

In order to run, electronic circuits and systems require power, which must be provided through a power outlet or a battery. Energy harvesting can lead to significantly longer battery life or completely self-sufficient operation.

This works by capturing ambient vibrations and converting them into energy through piezoelectric or electrodynamic transducers, or by harvesting power from photovoltaic sources.

One area where energy harvesting technology is being applied is in the development of a telematics module for air freight unit loading devices.

Your responsibilities

- Becoming familiar with energy harvesting technology
- Conducting research into piezoelectric and electrodynamic transducers
- Solar cell research
- Matlab programming
- Developing and simulating an electrical model for piezoelectric and electrodynamic transducers

Your profile

- University degree in electrical/electronic or mechatronics engineering
- Hands-on experience with measurement technologies and laboratory test equipment
- Basic knowledge of circuit technology and simulation
- Experience with MATLAB

What you can expect from us

- Diverse projects that are highly applicable to the real world
- An open and friendly work environment
- Sufficient opportunity to develop your interests and skills

Have we piqued your interest?

If so, we look forward to receiving your application. Please reference ID number 170770 and don't forget to tell us how you learned about this opportunity.

Fraunhofer Institute for Integrated Circuits IIS
HR Recruiting - **170770**
Am Wolfsmantel 33
91058 Erlangen

If possible, please submit your application in PDF format via e-mail to:
personalmarketing@iis.fraunhofer.de

You can find additional information and career opportunities at: www.iis.fraunhofer.de