

CAN I COMBINE SCIENCE AND BUSINESS IN A SINGLE JOB?

YES.

We'll show you how at Fraunhofer IIS.

For the **Integrated Circuits and Systems department** in **Erlangen**, the Fraunhofer Institute for Integrated Circuits IIS is currently seeking a

Master Thesis Student

for the Topic: Design of Low power Area Efficient ADC for Neuromorphic DNN ASIC on advanced technology

The Fraunhofer Institute for Integrated Circuits IIS is one of the world's leading application-oriented research institutions for microelectronic and IT system solutions and services.

The Integrated Circuits and Systems department has been developing complex mixed-signal ASICs for more than 20 years. Our focus is on mixed-signal ASIC design for industrial, communications and automotive applications as well as design solutions for increasingly complex electronic systems.

Possible Tasks broadly are:

- **IC-Design:** Design, simulation and/or layout of analog and mixed signal circuits in nanometer Technologies with CADENCE Tools
- **System-Design:** Design and analyze circuit architectures, determine system performance using system simulation and high-level modeling, derive block specifications from a system specification
- **Mixed-Signal-Design:** Mixed-Signal-Simulation and verification of Digital behavioral models along with analog blocks, Verilog-A or Verilog-AMS mode

Your profile: You ...

- are a Masters student in Electrical/Electronic Engineering and/or Information Technology or equivalent degree
- have knowledge on analog/mixed-signal circuit design and basic experience on Cadence's tools
- have knowledge on Neural Networks (advantageous)
- have good English skills

What you can expect from us

- **Versatile projects** with a high practical relevance
- An **open and collegial working environment**
- The **freedom to develop** according to your interests and abilities

We are pleased to offer you the opportunity to write a master thesis in cooperation with us. The thesis will be assigned and carried out in accordance with the rules of your university. For this reason, please discuss the thesis with a professor who can advise you over the course of the project.

If you have any questions about this opening, please contact Nina Wörlein (personalmarketing@iis.fraunhofer.de).

Interested?

Please apply for this position using the following link: <https://recruiting.fraunhofer.de/Vacancies/48335/Description/2>
Applications are possible **in German and English**. Please include a cover letter, your CV and your latest transcripts of records (as PDF) and quote ID number **48335**. Address your application to Nina Wörlein.

Please let us know how you learned about this job opportunity.

Additional information is available on our website: www.iis.fraunhofer.de/en