

# Driving decarbonization and digitalization. Together.



Working Student: ADA (f/m/div)

## Job description

As a global semiconductor leader in power systems and IoT, we enable game-changing solutions for green and efficient energy, clean and safe mobility, as well as smart and secure IoT. That's why you probably use our products every day: smartphone, charger, electric toothbrush, coffee machine, refrigerator, remote control and much more. We are looking forward to your application!

- **Take responsibility:** You will develop a foundation model that can be easily customized and fine-tuned for various vision tasks using Infineon's dataset
- **Data is everything:** You work on a model which should be capable of accommodating images of different sizes and spatial resolutions, effectively utilizing the spectral information, and outperforming existing models for downstream tasks
- **Expand your horizons:** You will deal with Infineon's unique dataset, which differs significantly from standard image datasets
- **Identify needs:** You optimize the model to effectively utilize spectral information, potentially drawing inspiration from models like DINOv2, Mask Auto Encoder (MAE), IJEPa
- **Experience research:** You investigate multi-stage pretraining techniques to improve model performance
- **Reliable work:** You validate the model's performance through ablation studies and comparison with existing foundation models

## Profile

- **Study field:** You are currently studying Data Science, Electrical Engineering, Informatics or a related subject
- **Experience:** You are familiar with foundation models, such as Segment Anything and Masked Auto Encoder (MAE). IJEPa, DIN
- **Personality:** You have excellent communication and presentation skills as well as strong problem-solving and analytical skills
- **Skills:** You are proficient in programming languages, such as Python, deep learning frameworks, such as TensorFlow or PyTorch and in Bash scripting, Linux terminal knowledge to streamline data processing; model training would be advantageous
- **Language skills:** You have good English skills, both written and spoken

Please attach the following documents to your application:

- CV in English

## At a glance

Location:

Job ID: **HRC0835675**

Start date: **Aug 01, 2024**

Entry level: **0-1 year**

Type: **Part time**

Contract: **Temporary**

Apply to this position online by following the URL and entering the Job ID in our job search. Alternatively, you can also scan the QR code with your smartphone:

Job ID: **HRC0835675**  
[www.infineon.com/jobs](http://www.infineon.com/jobs)



## Contact

Lorenz Cußmann



- Certificate of enrollment at university
- Latest grades transcript (not older than 6 months)
- High school report

Important information:

- **Working part-time:** The focus is on studies. Therefore, working student is possible during the lecture period with a maximum of 20 hours per week.
- **Proper students (according to the German law) are welcome:** You must be enrolled and the examination results or modules of your studies must not have been completed yet, so that you can still work in our team for at least 6 months. You must also not be in a semester of leave.
- **You should live close to the site:** It is important for us to work with you on site and to integrate you into the team. You should therefore be able to come to the site regularly.

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## Benefits

- **Warstein:** Coaching, mentoring networking possibilities; Wide range of training offers & planning of career development; International assignments; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Flexible working conditions; Home office options; Part-time work possible (also during parental leave); Sabbatical; Holiday child care; On-site social counselling and works doctor; Health promotion programs; On-site canteen; Private insurance offers; Wage payment in case of sick leave; Corporate pension benefits; Flexible transition into retirement ; Performance bonus; Accessibility, access for wheelchairs; Possibility to work remotely from abroad (EU)

## Why Us

**Further links:**

[Find out](#) what we are looking for in your CV

[Find out](#) how the student application process works with us

[Discover](#) our student website

**Driving decarbonization and digitalization. Together.**

Infineon designs, develops, manufactures, and markets a broad range of



semiconductors and semiconductor-based solutions, focusing on key markets in the automotive, industrial, and consumer sectors. Its products range from standard components to special components for digital, analog, and mixed-signal applications to customer-specific solutions together with the appropriate software.

**- Infineon Technologies in Warstein is our innovation and lead site for the research and development of power semiconductor modules with future-oriented jobs related to the energy transition -**

Infineon Warstein is a world-leading innovation and lead site for the research, development and production of power semiconductor modules for a greener future and is regarded as a driver of research and development within our global group. Here you will find inspiration and potential for the concepts of tomorrow through our products for wind turbines, photovoltaics, rail vehicles, the automotive sector and industrial drives.

In Warstein, we work together with more than 2,200 people from over 40 nations on international and innovative projects for more energy efficiency and a green future worldwide.

**We are on a journey to create the best Infineon for everyone.**

This means we embrace diversity and inclusion and welcome everyone for who they are. At Infineon, we offer a working environment characterized by trust, openness, respect and tolerance and are committed to give all applicants and employees equal opportunities. We base our recruiting decisions on the applicant´s experience and skills.

We look forward to receiving your resume, even if you do not entirely meet all the requirements of the job posting.

Please let your recruiter know if they need to pay special attention to something in order to enable your participation in the interview process.

[Click here](#) for more information about Diversity & Inclusion at Infineon.

