

/ Research Internship: Machine Learning Engineer (m/f/d)

PCH Innovations is a Berlin-based, multi-disciplinary studio for thoughtful technology and regenerative system development.

We believe current modes of living, building and being are often at odds with our innate evolutionary purpose to thrive. This is why we seek out projects that prioritize sustained and sustainable growth, waste reduction, contributive value creation models, resilient infrastructure and the transition to carbon-free energy.

We are a team of engineers, designers, technologists, scientists, coders, researchers, and film makers. We're different, but connected in our pursuit of engaging, high-impact products, experiences and methodologies.

Over the past 18 months, we have developed proprietary workflows, software frameworks, and algorithms that allow us to feed Generative Adversarial Networks (GANs) with thousands of highly detailed 3D data models. This combined solution, called 'Blank Compose', enables us to train neural networks on spatial data of any object, opening the field of deep & machine learning to industrial CAD applications.

What's the job?

This is a full-time internship, starting as soon as possible and lasting 4 to 6 months.

- Participate in cutting edge research & developments in the fields of computer vision, artificial intelligence, and machine learning applications
- Conduct foundational research and develop big data-driven systems & automated processes, as well as concrete solutions for industrial AI applications – in close collaboration with our research team, coders, and engineers
- Contribute to redefining the field of computer-aided design, with the chance of joining the team that drives this revolution
- Potentially join the team in a full-time position after the internship / graduation.

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And you...

- / Are involved in a Master's or PhD degree in Computer Science, Mathematics, Physics or related with a focus on Machine Learning (Deep Learning, Artificial Intelligence, Data Science)
- / Have excellent knowledge of Python; other languages such as C#, C++ are appreciated
- / Have already gathered practical experiences in the field of Machine Learning, and applied corresponding frameworks such as TensorFlow, PyTorch, Keras, etc.
- / Are skilled and interested to extend beyond prototype development, into deploying software as a service
- / Have creative thinking and multi-tasking skills
- / Have excellent problem-solving and analytical skills
- / Can quickly adapt to new objectives and dynamically evolving strategic directions
- / Are based in Berlin (or re-locate on your own terms for the duration of the internship)

Plus Points:

- / Experience with training & optimizing Generative Adversarial Networks (GANs)
- / Experience in handling 3D data formats, including mesh analysis and visualization

What's in it for you...

- / An opportunity to explore exciting territory at the forefront of technological innovation
- / A diverse, international, friendly and supportive team
- / A culture of responsibility, co-determination, openness and consideration
- / Space for creative freedom and expression
- / A beautiful, quiet, dog-friendly studio with a garden and multiple terrace hang-out spots
- / Fresh fruit and snacks throughout the week, weekly (vegan/vegetarian) chef-cooked lunches
- / Team-building activities and events
- / Individual and team coaching

If you are interested in working with us, please send us your CV, relevant work references, and preferably your Master/Bachelor Thesis abstract via talent@pch-innovations.com. Applications will be reviewed immediately.

We look forward to hearing from you.