

# TECH TALENT PROGRAM

## Kick-Start Your Tech Career in 12 Weeks

HANDS-ON INDUSTRY CHALLENGES WITH:

InfraTec GmbH (AI Fire Detection)

Theben AG (Smart Building Automation)

DiaMonTech AG (Medical Diagnostics)

Ucaneo Biotech GmbH (Climate Tech)

alcemy GmbH (Sustainable Construction)



**APPLY NOW!**



**#8**

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## WHAT IS THE TECH TALENT PROGRAM?

Theory or practice? Why choose when you can have both by joining our [Tech Talent Program](#)!

MotionLab.Berlin's Tech Talent Program is a 12-week program for bachelor's and master's students in Berlin, Brandenburg, and now also Dresden, studying Computer/Data Science, AI/Machine Learning, IoT, Physics, Engineering, Architecture, Industrial/Product Design, or Business Development.

The program offers hands-on experience, practical skills, and engaging projects to work on in collaboration with forward-thinking companies and top industry experts. It's designed to enhance your career prospects by helping you apply your knowledge in a practical setting.

### \* CHALLENGES

Work on the future of tech: from infrared and AI sensing ([InfraTec GmbH](#)) to smart building automation ([Theben AG](#)), DAC ([Ucaneo Biotech GmbH](#)), sustainable construction ([alcemy GmbH](#)), and health tech powered by mid-IR spectroscopy ([DiaMonTech AG](#)).

### \* WORKSHOPS

Upgrade the skills employers notice: design thinking, agile product development, rapid prototyping, AI development—all led by our mentors and experts who build real products.

### \* PROTOTYPING

Benefit from free access to our facilities and prototyping machinery, as well as our maker and coworking spaces. Learn 3D printing, electronics, laser cutting, and explore everything else MotionLab.Berlin has to offer.

### \* NETWORKING

Connect with mentors, founders, engineers, and decision-makers from our ecosystem. Join our talent pool and alumni community to unlock opportunities for internships, theses, and your first job.



## 12-WEEK GROWTH JOURNEY

### \* 2-WEEK BOOTCAMP

The bootcamp kicks off with hands-on workshops in 3D printing, prototyping, and IoT tools, while also building teamwork, agile project management, and communication skills—the foundation for the entire program.

### \* 10-WEEK PROJECT WORK

Join a team of five to tackle real innovation cases from [InfraTec GmbH](#), [Theben AG](#), [DiaMonTech AG](#), [Ucaneo Biotech GmbH](#), or [alcemy GmbH](#). Apply your tech skills, manage projects, and learn to deliver results in real-world conditions with a diverse team.

## MILESTONES

- \* **Until December 2025**  
Sign up to be the first to apply.
- \* **5 January – 8 February 2026**  
Applications open—apply before it's too late!
- \* **23 February 2026**  
The announcement of participants.
- \* **March – May 2026**  
Batch 8 kicks off.
- \* **28 May 2026**  
Graduation Day—present your work and celebrate your success.

### → REAL-WORLD TESTING

You won't just build—you'll test your prototype under real-world conditions, just like in industry.

### → WEEKLY CHALLENGE MEETINGS

Get insider know-how in weekly team sessions with your tech challenge coaches.

### → BI-WEEKLY MENTORING

Accelerate your growth by checking in regularly with our tech and management mentors.

### → FREE TICKETS TO FAIRS & EVENTS

Get free access to MotionLab.Berlin events and attend selected industry fairs and conferences at no cost.

### → WORKSHOPS & KNOW-HOW

Learn everything from AI to communication in exclusive workshops led by industry experts.

### → GRADUATION DAY

Present your results to industry partners and the community, earn your certificate, and join our alumni network.

## WHO WE'RE LOOKING FOR...

We're looking for students who want to build the future—curious, bold, and ready to get hands-on. Apply for the upcoming batch of the Tech Talent Program if...



### \* YOU'RE A STUDENT

You're a bachelor's or master's student at a university in Berlin, Brandenburg, or Dresden (bachelor's students should be at least in their fourth semester).

### \* YOUR FUTURE DEGREE IS...

...in Computer/Data Science, AI/Machine Learning, IoT, Physics, Engineering, Architecture, Industrial/Product Design, or Business Development.

### \* YOU'RE FULLY COMMITTED

You're ready to engage fully in the 10-week program—bootcamp, workshops, and hands-on challenges included.

### \* NOT SURE THIS IS FOR YOU?

Think you might not be the perfect fit for the Tech Talent Program? Go ahead and apply anyway!

→ TO APPLY, CHOOSE THE CHALLENGE YOU WANT TO WORK ON AND FILL OUT [THIS FORM](#) BY FEBRUARY 23, 2026.

# TECH CHALLENGE 1 – INFRA TEC:

## AI-ENHANCED FIRE DETECTION SYSTEM

04

How can we use AI and machine learning to make fire detection smarter and safer?



### **ABOUT INFRA TEC**

InfraTec is a leading expert in infrared technology and thermal imaging solutions based in Dresden. With over 30 years of experience, the company develops high-end camera systems and innovative sensor technologies used worldwide in industry, science, and safety applications.

### **THE INFRA TEC TECH CHALLENGE:**

- \* **Build an AI-enhanced fire detection system** that integrates thermal and visual cameras, giving you hands-on experience with advanced infrared imaging.
- \* **Tackle real-world problems of false alarms**—from vehicle exhaust and sun reflections to artificial lighting—and design solutions that work in diverse environments.
- \* **Optimize your models for real-time performance**, ensuring fast and reliable detection where safety depends on every second.
- \* **Work under real-world conditions**, testing your prototype in controlled environments and adapting it for practical deployment.
- \* **Gain unique insights into AI and infrared technology** through close collaboration with InfraTec experts and your dedicated Tech Challenge Coach.

### **MAKE SURE TO APPLY IF YOU:**

- \* Study Computer Science, Data Science, AI/Machine Learning, Electrical Engineering, Physics, Optical Systems, or a related field, and are eager to dive into real-world prototyping, teamwork, and testing.
- \* Are ideally based in Dresden, or alternatively in Berlin or Brandenburg.



**Fabian Göttfert,**  
Development Manager  
Infrared Measurement  
Technology,  
InfraTec GmbH

## INFRA TEC.

“Join our challenge if you’re excited to push AI beyond the lab and into real life. At InfraTec, you’ll explore how advanced sensors and smart algorithms can work together to help save lives.”

# TECH CHALLENGE 2 – THEBEN:

## SMART MOVEMENT DETECTION

05



How can sensor and camera integration redefine the future of smart building automation?

### **ABOUT THEBEN**

Theben is a leading German provider of time switches, presence and motion detectors, climate control devices, and KNX-based building automation systems. Their products are widely used to make buildings smarter, safer, and more energy-efficient. Now, they're taking the next step: developing a new generation of movement sensors with integrated cameras.

### **THE THEBEN TECH CHALLENGE:**

- \* **Design and prototype** a mechanical casing for a new movement detection sensor that combines high-sensitivity presence detection with integrated cameras.
- \* **Integrate hardware and software** to process real-time detection data and ensure compatibility with KNX/DALI building automation standards.
- \* **Test and optimize** your prototype under real-world conditions, from office spaces to outdoor environments.
- \* **Gain hands-on experience** in mechanical design, sensor integration, and building automation protocols—working on a system close to market readiness.
- \* **Collaborate directly with Theben's product development team** and your dedicated Tech Challenge Coach to gain insights into smart building innovation.

### **MAKE SURE TO APPLY IF YOU:**

- \* Study Mechanical Engineering, Electrical Engineering, Computer Science, Software Engineering, or a related field—and have a strong motivation to dive into real-world prototyping, teamwork, and testing.
- \* Interested in smart building technologies, including KNX/DALI protocols and IoT.
- \* Are ideally based in Berlin or Brandenburg.



**Robertino Saupp**  
Senior Director  
Research & Development,  
Theben AG

**theben**

“This challenge gives you a rare chance to develop a product that could soon become part of real building automation systems. If you're excited about combining mechanical design, electronics, and software into one working device, this is the perfect challenge for you.”

# TECH CHALLENGE 3 – DIAMONTECH:

## AUTOMATED TEST STATION

06



How can we automate testing to make non-invasive glucose measurement more reliable and scalable?

### ABOUT DIAMONTECH

DiaMonTech is a Berlin-based medtech scale-up that has recently secured major funding to bring its technology to market. Their breakthrough: a non-invasive glucose measurement device powered by mid-infrared laser technology. Their vision is nothing less than revolutionizing diabetes care—making glucose monitoring painless, reliable, and scalable worldwide.

### THE DIAMONTECH TECH CHALLENGE:

- \* **Design and build an automated test station** that helps DiaMonTech validate and scale their groundbreaking prototypes.
- \* **Execute system tests on different prototypes** by measuring the performance of the spectrometer
- \* **Automate manual processes** with a flow-cell system and pump integration, replacing syringe-based testing methods.
- \* **Validate and optimize measurement protocols** to ensure accuracy under real lab conditions.
- \* **Work hand-in-hand with DiaMonTech CTO and engineers** to push the boundaries of automation—with the potential to shape interfaces beyond pure data collection.

### MAKE SURE TO APPLY IF YOU:

- \* Study Electrical Engineering, Mechanical Engineering, Physics, or related fields, with a strong interest in prototyping, automation, and hands-on lab work.
- \* Want to work at a scale-up with a positive impact at the intersection of hardware, software, and biomedical technology.
- \* Are ideally based in Berlin or Brandenburg.



“This challenge is unique because your work contributes directly to a product that’s on its way to market. At DiaMonTech, you’ll experience firsthand how a fast-growing scale-up develops technology with the potential to impact millions of lives.”

**Dr. Michael Kaluza**  
CTO, DiaMonTech AG

## IMMERSIVE DIRECT AIR CAPTURE PAVILION



How can we translate complex climate technology into a spatial concept that delivers a tangible, engaging experience for visitors of all backgrounds?

### **ABOUT UCANEO**

Ucanéo is developing next-generation direct air capture technology that removes carbon dioxide from the atmosphere using a highly energy-efficient electrochemical process. To showcase this breakthrough to partners, policymakers, and the public, Ucanéo will build a visitor pavilion next to their DAC plant currently under construction in Marzahn, Berlin. The pavilion will serve as a central space to experience the technology, understand its impact, host events, and engage partners and the wider community.

### **THE UCANEO TECH CHALLENGE:**

- \* **Contribute to the design and realization of a visitor pavilion** that delivers a clear “wow” effect.
- \* **Develop the visitor experience** by translating Ucanéo’s technology into engaging storytelling via interactive installations that clearly explain how Direct Air Capture works.
- \* **Design components and installations** for efficient fabrication, modular installation, and smooth on-site assembly.
- \* **Create a modern, informative, and playful space** that reflects Ucanéo and MotionLab.Berlin’s culture while engaging adults, families, journalists, and industry visitors.

### **MAKE SURE TO APPLY IF YOU:**

- \* Study Architecture, Product Design, Industrial Design, Communication Design, Engineering, or a related field, and have a strong interest in prototyping, fabrication, installation work, and experience design.
- \* Enjoy collaborative building and creative problem-solving.
- \* Are ideally based in Berlin or Brandenburg.



**Olivia Suchy**  
Commercial &  
Partnerships Manager,  
Ucanéo Biotech GmbH



**UCANEO**

“Join us in building Germany’s climate pavilion—a global showcase of innovation. We’re calling on creative minds who want to make a real, hands-on impact and help bring a breakthrough Direct Air Capture technology to the world.”

# TECH CHALLENGE 5 – ALCEMY: IOT FOR SUSTAINABLE CONCRETE

08



What happens when IoT meets the real world?  
How do concrete trucks, sensors, and data behave under tough conditions?

## **ABOUT ALCEMY**

The cement and concrete industry plays a key role in global efforts to decarbonize and address the climate crisis. Concrete, the most widely used material after water, will remain an irreplaceable building material. At alchemy, our vision is to empower cement and concrete manufacturers with technology to successfully navigate this transition toward a carbon-neutral industry and become global pioneers of sustainability.

### **THE ALCEMY TECH CHALLENGE:**

- \* **Put the system together yourself**, make yourself acquainted with the electrical makeup of a real-world system.
- \* **Support the development of a WIP IoT solution** to meet the industry standards and the customer's requirements.
- \* **Lead remote investigations and troubleshooting** to find solutions to real problems in the field.
- \* **Help translate field learnings into concrete improvements** and mark your impact on the end product.

### **MAKE SURE TO APPLY IF YOU:**

- \* Study Electrical Engineering, Mechatronics, Computer Science, Embedded Systems, or a related field, and have experience or interest in embedded Linux, IoT systems, or industrial environments.
- \* Are ideally based in Berlin or Brandenburg.



**Marco Datola**  
Head of IoT,  
alchemy GmbH



“IoT only becomes real when it survives in the field. This challenge is about understanding how concrete trucks, sensors, and data behave in the real world—and turning those insights into better hardware and software.”

## ABOUT MOTIONLAB.BERLIN

MotionLab.Berlin is Europe’s leading hardtech and deep tech innovation hub. We connect students, startups, and companies with everything they need to turn bold ideas into working prototypes and global ventures.

What makes us different

- Hands-on labs with 3D printing, laser cutting, electronics, and more.
- A thriving community of startups, SMEs, corporates, as well as artists and makers.
- Access to coaches, mentors, and industry experts, and bigger international networks.

At MotionLab.Berlin, you don’t just learn—you build, test, and grow.

The Tech Talent Program is your entry point into our ecosystem and to Berlin’s most exciting tech community.



## OUR ALUMNI STUDIED AT



## PROGRAM PARTNERS

