Cure Bionics

PFE BOOK

2026

About Us

Cure Bionics is driven by a mission to transform the lives of individuals with limb differences through innovative prosthetic solutions that are accessible, affordable, and designed to feel like a natural extension of the body.

Beyond technology, our commitment is rooted in empowerment—giving individuals the tools to pursue their passions, tackle daily challenges, and embrace life with resilience.

At Cure Bionics, every innovation is a step towards making a meaningful and lasting impact on the communities we serve.

Candidate Information

Internship Format
Internships can be physical, remote, or hybrid, so be ready to move to Sousse if needed.

Stipend
The best candidates will receive a stipend.

Language Requirement
English is a MUST for communication and collaboration.

Collaboration and Mentorship
You will work closely with a multidisciplinary team, gaining hands-on experience and guidance throughout the internship.

Availability
Full-time availability is preferred, with flexible working hours based on project needs.

Equipment
A good laptop and reliable internet connection are necessary for remote work.

Performance-based Opportunities
Outstanding interns may be offered extended collaborations or permanent positions after graduation.

Cultural Fit
We value creativity, initiative, teamwork, and adaptability in our work environment.

Growth and Learning
Access to training resources, workshops, and team-building activities to support your professional and personal development.

How To Apply

1.Prepare Your Application

1. **Resume/CV:** Ensure your resume highlights your relevant skills, experiences, and achievements.
2. **Portfolio (if applicable):** Include links to your portfolio showcasing your work (for design, motion graphics, and video editing roles).

2.Submit Your Application

Apply only via this link: https://forms.gle/NZmXugemDdoewXmK6

3.Interview Process

1. Shortlisted candidates will be contacted for an **initial interview** to discuss their experience and fit for the role.
2. You may be asked to complete a **technical test or portfolio review**, depending on the position.

5.Important Deadlines

1. Application Deadline: **[20/02/2026]**
2. Internship Start Date: **[Depending on your university]**

6.Contact for Questions

1. For any questions, please reach out to **[internships@curebionics.com]**.

We will not accept any internship application sent directly to the email address provided

Projects Summary

1. **Knee V2** → KV2
2. **Assistance Platform for 3D Scanner** → APS
3. **Bionic Elbow (Mechanical)** → BEM
4. **Patient Profile Establishment for NGO Prospection** → PPEN
5. **Bionic Elbow (Electronics)** → BEE
6. **Graphic Design Support** → GDS

Projects Details

Hydraulic Prosthetic Knee

Required Technical Skills

- SolidWorks CAD (Design & Simulation)
- 3D printing knowledge
- Mechanical part selection (functional and cost-efficient)
- Design for Manufacturing (DFM) and BOM preparation

Required Personal Skills

- Engineering rigor and precision
- Analytical and problem-solving skills
- Ability to work independently
- Technical documentation skills

Project Description

Design, develop, and validate a **four-bar prosthetic knee joint** with an **adjustable hydraulic suspension system**, optimized to reproduce a natural human gait and ready for manufacturing and testing.

Tasks to Perform

- Design the four-bar knee mechanism in SolidWorks
- Integrate and validate the hydraulic suspension system
- Perform structural and kinematic simulations
- Prototype a knee model using 3D printing
- Validate knee behavior, stability, and suspension response
- Prepare a complete manufacturing folder

Rotative motorized platform for 3D Scanner

Required Technical Skills

- Mechanical design using SolidWorks
- Mechanical structures and supports
- Motorized and manual mechanical systems
- Structural and stability simulation
- 3D printing for prototyping
- Manufacturing drawings and BOM preparation
- Ergonomic design principles

Required Personal Skills

- Analytical thinking
- Attention to detail
- Problem-solving skills
- Ability to work independently

Project Description

Design, develop, prototype, and validate a **rotative motorized mechanical platform** for **smartphone and iPad-based 3D scanning** of upper and lower limbs, ensuring stable positioning, improved scan accuracy and patient comfort.

Tasks to Perform

- Design the mechanical architecture of the scanning platform
- Develop limb support and positioning systems
- Design adjustable smartphone and iPad mounting arm
- Perform structural, stability, and deformation simulations
- Prototype components using 3D printing
- Validate ergonomics, stability, and scanning repeatability
- Prepare complete manufacturing and assembly documentation

Bionic Elbow (Mechanical)

Required Technical Skills

- Mechanical design and CAD using SolidWorks
- Mechanical simulations (stress, deformation, stability)
- Design for manufacturability and assembly (DFM/DFA)
- Material selection (aluminum, steel, polymers)
- 3D printing for prototyping
- Mechanical integration with electronics and socket systems
- Manufacturing drawings and BOM preparation

Required Personal Skills

- Analytical and problem-solving skills
- Attention to detail and engineering rigor
- Ability to work in a multidisciplinary team
- Clear technical communication

Project Description

This internship aims to **industrialize** the existing Cure Bionics **bionic elbow prototype**, transforming it into a **robust**, **manufacturable**, and **clinically viable product**. The system must be **compatible with multiple end-effectors** and fully integrated with the socket design and embedded electronics.

Tasks to Perform

- Analyze and improve the existing mechanical elbow design
- Redesign the architecture for manufacturability and maintenance
- Perform CAD modeling and mechanical simulations
- Select materials and define structural constraints
- Prototype and test components using 3D printing
- Collaborate with electronics and socket design teams
- Prepare the complete industrial manufacturing and assembly file

Bionic Elbow (Electronics)

Project Description

Design and validate the **electronics and firmware** of a **bionic elbow**, including PCB, motor control, safety mechanisms, and communication with the Hannibal Hand.

Required Technical Skills

- Embedded electronics
- Motor drivers and power management
- Sensor interfacing
- PCB design
- Embedded firmware development
- System testing and integration

Required Personal Skills

- Analytical thinking
- Attention to detail
- Teamwork
- Autonomy

Tasks to Perform

- Design final PCB
- Develop motor control firmware
- Implement safety features
- Integrate electronics with mechanical elbow
- Test and validate the system

Graphic Design Support

Project Description

Support Cure Bionics with **brand-consistent graphic design, technical documentation, and visual communication**, focused on **user-friendly experience**, clarity, and accessibility.

Required Technical Skills

- Graphic design (layout, typography, visual hierarchy)
  Technical & instructional illustration
- User-centered design
- Multilingual design (AR / EN, FR is a plus)
- Brand guidelines application
- Print & digital production basics
- Adobe Illustrator, InDesign/Figma, Photoshop

Required Personal Skills

- Ability to simplify complex information
- Attention to detail
- Respect of brand guidelines
- Openness to feedback
- Time management
- Clear communication

Tasks to Perform

- Update existing documentation (Bionic Hand manual)
- Create new user manuals (Lower limb, MyoRehab)
- Design technical and instructional illustrations
- Finalize Brand Guidelines (Brand Book)
- Create Social Media Charter
  Design exhibition and event visual assets


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