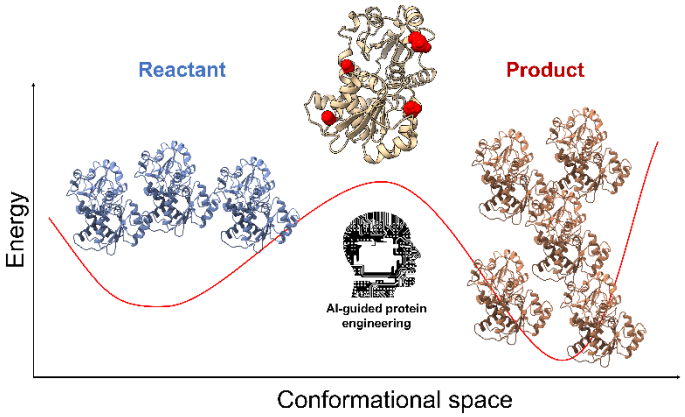
Research Assistant in Computational Protein Design for Gene Therapy

Where: This is a full-time **in-person** position at the Telethon Institute of Genetics and Medicine (TIGEM), located in Pozzuoli, Naples, Italy. More info at www.tigem.it.

When: April 1st, 2026

What: We are seeking a highly motivated **graduate student** to join our Computational Structural Biology group. The candidate will employ state-of-the-art AI-based Protein Design methods and advanced Molecular Dynamics simulations to support the design of enhanced enzymes used as therapies for lysosomal storage disorders (LSD). This project aims to overcome the main limitations of current LSD therapies by improving the potency of the enzyme, reducing the doses required, and minimizing the side effects.
This contract is intended to prepare the candidate for a potential transition into a PhD program.



Salary: The salary will be discussed privately with applicants based on previous experience.

Essential Requirements:

- Experience with the Python programming language and Linux-based operating systems
- Familiarity with biomolecular simulations and/or familiarity with machine learning/deep learning methods
- Master's degree in physics, chemistry, biology, computer science, or a related field
- High motivation and willingness to work in an interdisciplinary and collaborative environment
- Good English communication skills

Desirable (but not essential):

- Previous experience with AI-based protein design/modelling algorithms (e.g., ProteinMPNN, ESM, Rosetta, etc.)
- Previous experience with GROMACS or other MD softwares

How to apply: Please send your CV and a motivational letter to **Dr. Andrea Pasquadibisceglie** at: **a.pasquadibisceglie@tigem.it**

Application Deadline: February 19th, 2026

TIGEM does not discriminate on the basis of sex, race, gender orientation, sexuality, or disability. The selection committee for this role encourages applicants from all backgrounds and will consider all applications equally, irrespective of the aforementioned characteristics.