IMMERSE initiative

Introducing **M**olecular **M**odeling
Experiences to under**R**epresented **S**tud**E**nts

Prof. Zahran and Prof. Solis
Oct 12th, 2023

Objectives of this initiative

- Provide a **direct path** to BIB students in cutting-edge biotechnology

- Help students gain industry relevant experiences in **computational molecular modeling**

- Enhance student modeling skills at **multiple levels** on the pathway from community college to a 4-year institution to the workforce

What is computational molecular modeling

- Molecular modeling provides six major types of information.
  - **3D structure** of biomolecules
  - Chemical and physical **characteristics** of biomolecules
  - **Comparison** of structures of related biomolecules
  - **Prediction** of 3D structures of related biomolecules
  - **Visualization** of **complexes** formed between different biomolecules
 - Insight into how **function** arises from structures

1. Paid internship at Schrödinger

- Eligible for either
  - a **paid part-time in the Spring** (20 h/week internship around 24 weeks from Jan-June 2024)
  - Or a **full-time Summer** (40 h/week internship around 12 weeks from June-Aug 2024)

- Stipend of **$9,000**.

What will IMMERSE provide to YOU

2. Hands-on experiences

- Hands-on experience in the **classroom** (BIO 3352 and BIO4350) related to computational molecular modeling, including the use of molecular modeling software tools, data analysis, and visualization of 3D molecules.

- Level up your skillset with hands-on, online molecular modeling courses offered by **Schrödinger**. Completion of the online course will earn you a Schrödinger **certificate** and **badge** that you can display in your **Resume/CV** and **LinkedIn profile**.
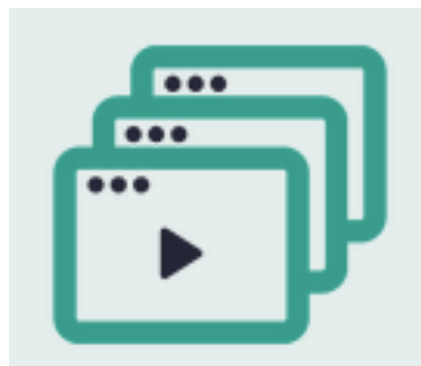
3. Mentorship

- **Near-Peer Mentorship** between students and interns to create a **community feeling.**

- Industry Mentorship: **Meet experienced professionals** who can provide **guidance** and **support** throughout your academic and professional **careers** including: **professional picture, LinkedIn profile, GRE preparedness, resume improvement and interview practices.**

- **Dedicated curricular advisement** by Prof. Solis.

4. Networking

- Networking events with the **N**ew **Y**ork **A**rea **G**roup for **I**nformatics and **M**odeling (NYAGIM) will provide opportunities for you to **connect** with **professionals** and **peers** in the computational molecular modeling field.

- These events include **career fairs**, **guest lectures**, and **social events**.

Internship Application Checklist

Requirements:
- City Tech student enrolled in the Biomedical Informatics Bachelor's (BIB) program
- Enrolled or completed BIO 3352
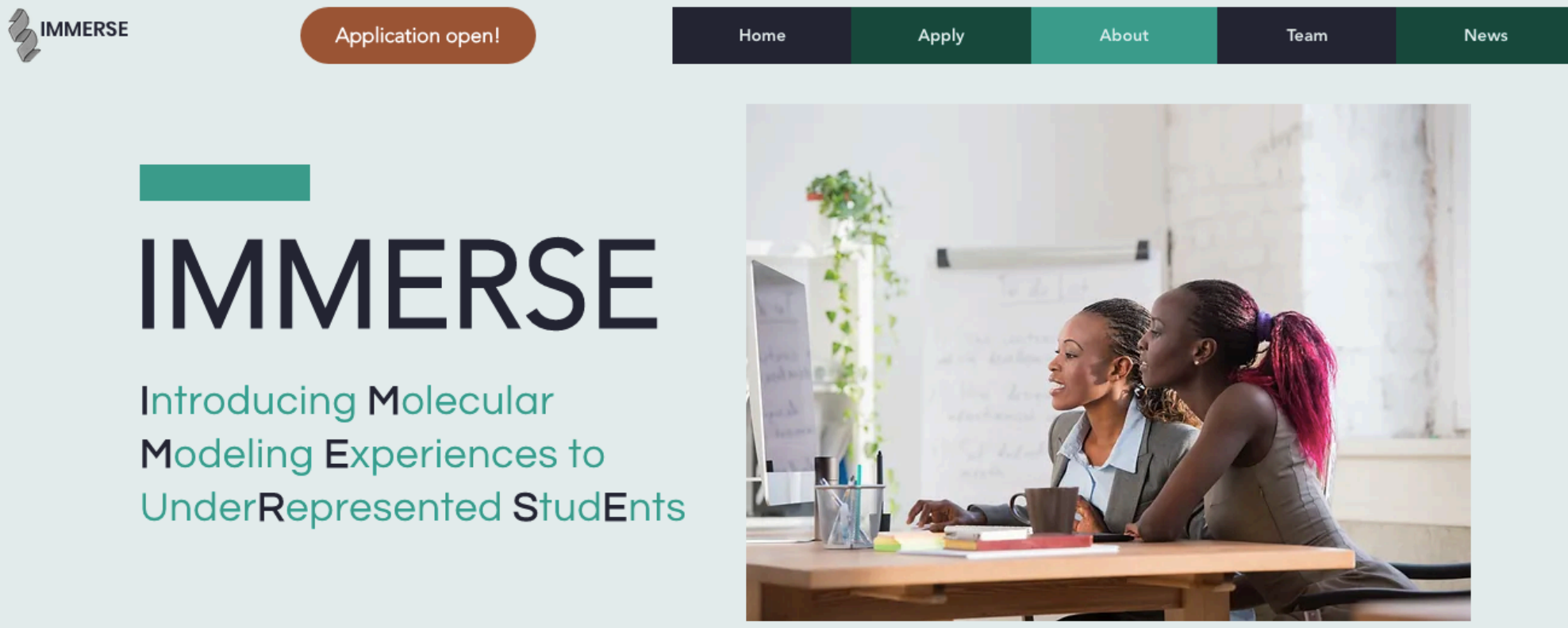- Minimum of 2.7 cumulative GPA

Provide with your application:
- a Resume
- a Personal Statement
- at least one letter of recommendation (2 letters preferred)

Where to apply?

How to apply:

- Submit your application form, resume and personal statement <u>here</u>
- Your recommendation letter referee(s) must submit the letter(s) directly to <u>info@immerse-initiative.com</u>

https://www.immerse-initiative.com/

Save the dates!!!

IMMERSE INITIATIVE

Application deadline: 16th November, 2023

Interview at City Tech: 5th December, 2023

Interview at Schrödinger: 8th December, 2023

Award Decision: 15th December, 2023

https://www.immerse-initiative.com/

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Scan to apply: