

**Faculty Name:**

Mijo Simunovic

**Faculty Email:**

ms6051@columbia.edu

**Lab:**

Laboratory for Human Embryomimetics

**Project Title:**

Engineering human organogenesis in vitro

**Description:**

The Simunovic lab is at the interface of stem cell biology and cellular engineering, seeking to understand the fundamental rules of how cells become specified toward their fates in early embryogenesis. We employ a combination of techniques, including tissue engineering, CRISPR gene editing screens, live-cell confocal microscopy, and organoid biology, with goals to reconstitute some of the processes in embryogenesis and organogenesis in vitro. We seek students who will contribute to our efforts engineering novel tools to dissecting the signaling mechanisms in human organogenesis.

**Location of Research:**

On Site

**# of hrs/week:**

40

**Department/Program:**

Chemical Engineering

**Eligibility:**

BS, Second Year, BS, Third Year, BS, Fourth Year, MS

**To apply, please contact:**

Mijo Simunovic

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