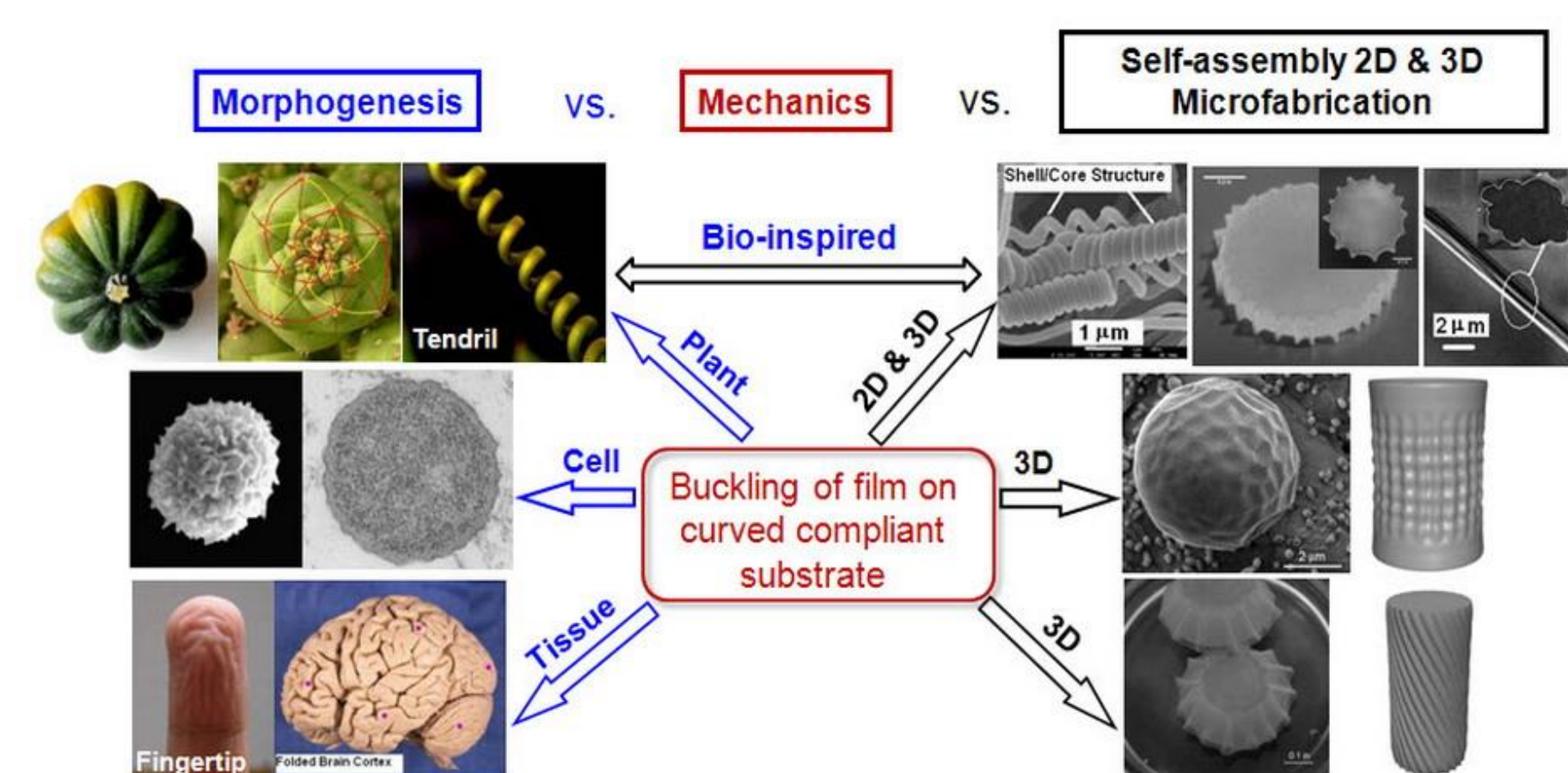
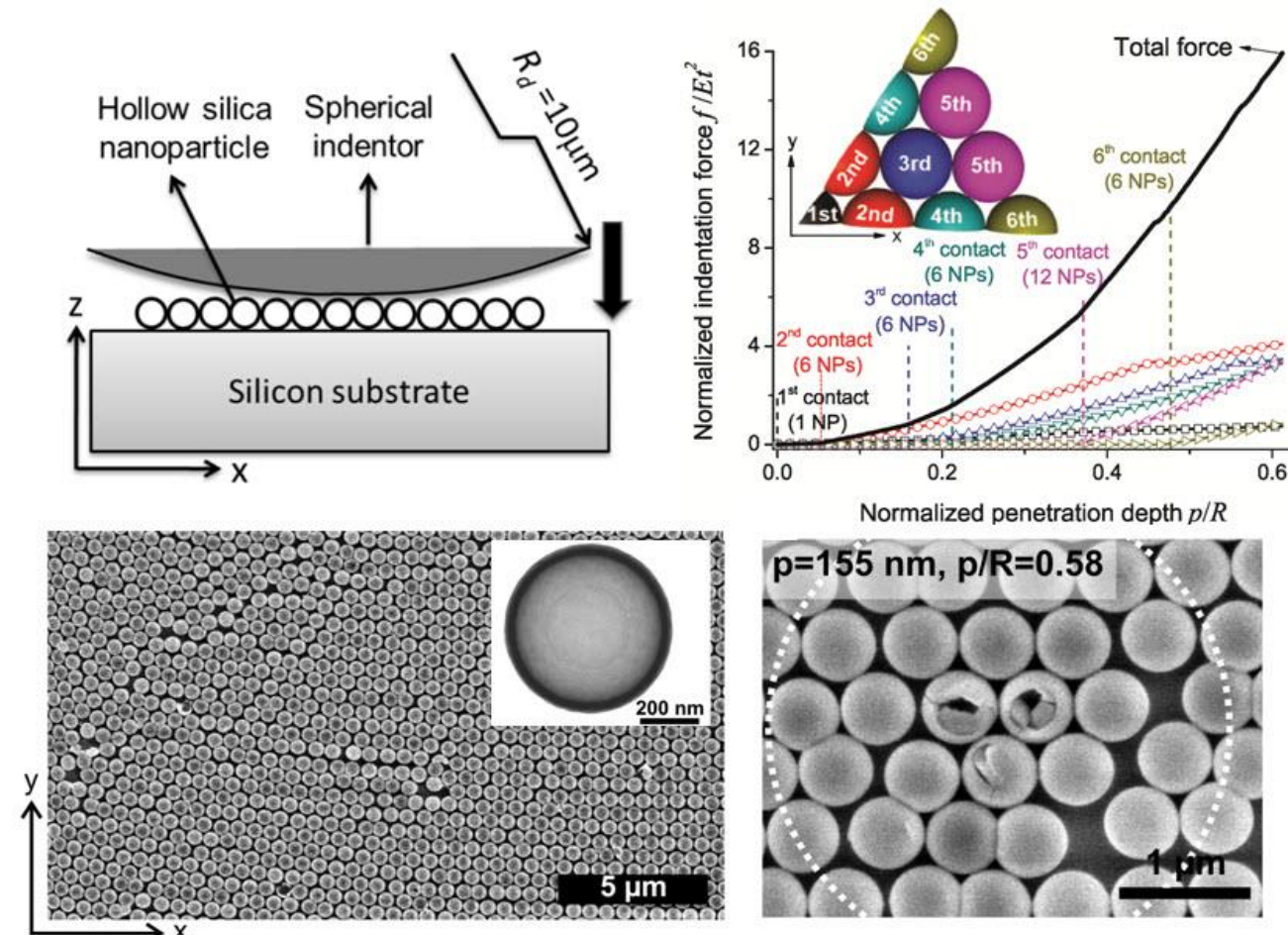


## Ph.D. Openings at Applied Mechanics of Materials (AMM) Group

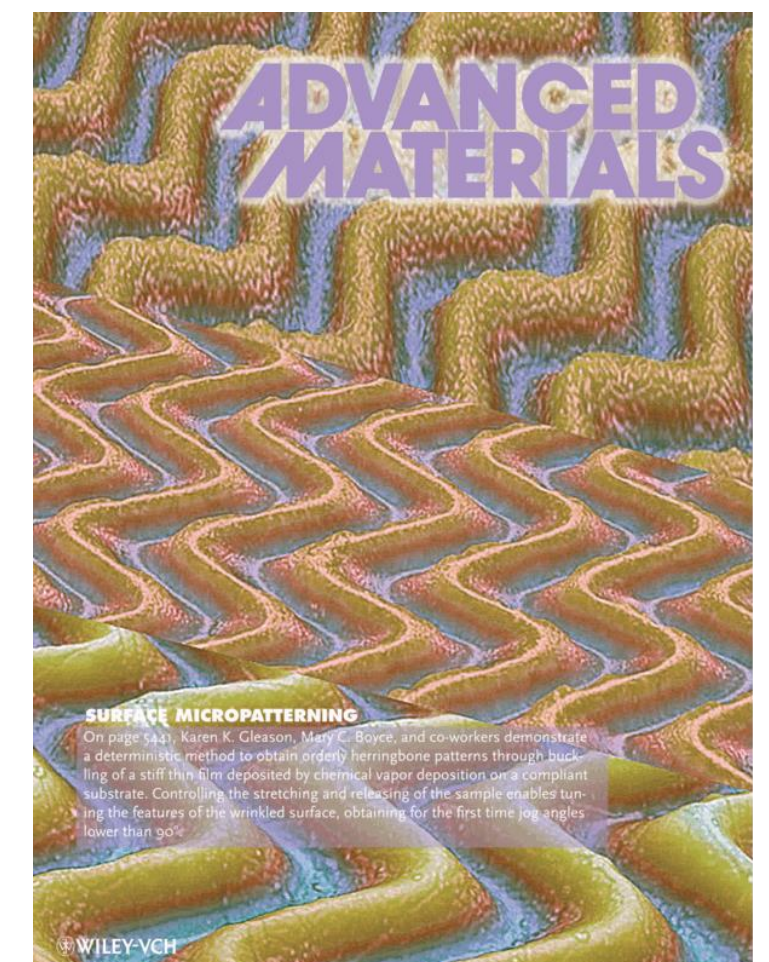
PI: Dr. Jie Yin

[jiyein@temple.edu](mailto:jiyein@temple.edu)


Mechanics of morphogenesis & bio-inspired micro-fabrication



Mechanics of colloids for defensive applications



Multifunctional wrinkling micro-patterns

### Openings:

Two Ph.D. positions will be available in the AMM group of Mechanical Engineering Department at Temple University, Philadelphia, PA, USA. The positions will start in the coming **Spring/Fall, 2014**.

The research program will focus on **mechanics of soft composite materials and structures** as well as their novel applications in micro/nano-fabrication, anti-biofilm, energy absorption/harvesting, etc. In particular, it will focus on harnessing buckling instabilities of hybrid soft and hard materials and periodic structures for dynamically tailoring mechanical, adhesive, acoustic, and optical functions of the materials and structures. The research will involve a combination of experimental measurements, analytical modeling, and numerical simulation methods (FEM and MD).

Candidates with experimental or modeling background and interests in solid mechanics, mechanical engineering, materials science, and bio-engineering are highly encouraged to apply. TOEFL is required. GRE could be waived if you are excellent in research or other aspects.

### About AMM Group @ Temple

The AMM group is led by Dr. **Jie Yin**, Assistant Professor of Mechanical Engineering. Prior to joining Temple, Dr. Yin was a Postdoctoral Associate in the Department of Mechanical Engineering at MIT. Dr. Yin received his Ph.D. in Engineering Mechanics from Columbia University in 2010, and M.S. in Solid Mechanics from Tsinghua University in 2007.

The AAM research group is on mechanics of advanced materials and structures at small scales, as well as its broad applications in energy, environment, and healthcare. In particular, current research focuses on mechanics of colloids, soft composite materials and its novel applications in biological morphogenesis, anti-biofouling, lightweight polymer nano-composites for energy absorption, and renewable energy harvesting, etc.

### Contact:

If interested, please send your resume or CV to Dr. Jie Yin at [jiyein@temple.edu](mailto:jiyein@temple.edu). For more information, please visit <http://sites.temple.edu/jiyein>

