

# Advancing the Future of Orthopedics

## Tissue Engineering and Regenerative Medicine

The University of Wisconsin School of Medicine and Public Health is a nationally recognized leader in regenerative medicine, stem cell and biologic therapeutic technology. Scientists from the Department of Orthopedics and Rehabilitation are using this technology to accelerate the translation of laboratory research into real-world orthopedic care.

Some tissues, such as cartilage, do not heal, resulting in painful osteoarthritis. Other tissues, like bone, tendon and ligaments, heal but only with significant scar tissue that may limit function. Researchers from the Department are using stem cells and “smart” medical devices to make these tissues heal more quickly and completely, decreasing rehabilitation time and improving quality of life.

With philanthropic support there is real potential to advance the science of orthopedics, by one day using a person’s own tissue to self-heal from sports injuries, osteoarthritis and other limiting orthopedic conditions.

There are two primary needs to make this type of treatment a reality for patients:

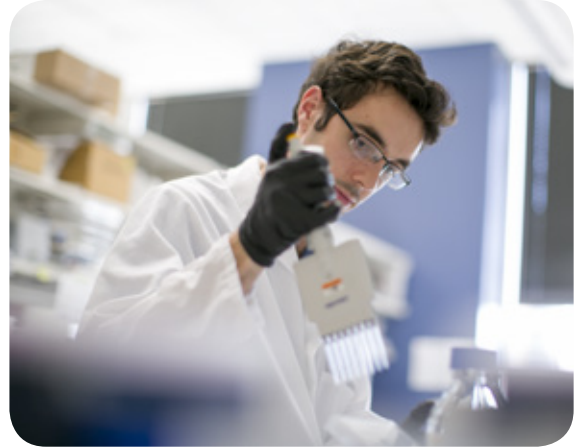
- Funding to conduct stem cell therapy studies to grow tissue in therapeutic quantities
- Funding to conduct translational studies to grow cartilage tissue in large therapeutic quantities and ultimately transplant in people who suffer from tissue damage.

### Philanthropic funding goal: \$3 million

To learn more about advancing the future of orthopedics through tissue engineering and regenerative medicine or to make a contribution online, please visit [ortho.wisc.edu/giving](http://ortho.wisc.edu/giving) or contact:

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AND SUPPORTS RESEARCH