



Lloyd Smith

**Associate Professor
School of Mechanical
and Materials
Engineering**

University

- **Founded in 1890 as Washington State's Land Grant Institution**
 - **Pullman (18,000)**
 - **Spokane (1,000)**
 - **Tri-Cities (1,000)**
 - **Vancouver (2,000)**

Academic Colleges

- **Agriculture, Human & Natural Resource Sciences**
- **Business and Economics**
- **Education**
- **Engineering and Architecture**
- **Liberal Arts**
- **Nursing**
- **Pharmacy**
- **Sciences**
- **Veterinary Medicine**

Units in the College of Engineering and Architecture

- **School of Architecture and Construction Management**
- **Biological Systems Engineering**
- **Chemical Engineering**
- **Civil and Environmental Engineering**
- **School of Electrical Engineering and Computer Science**
- **School of Mechanical and Materials Engineering**

Academic Programs in the College of Engineering and Architecture

- **Architecture**
- **Construction Management**
- **Biological Systems Engineering**
- **Chemical Engineering**
- **Civil and Environmental Engineering**
- **Computer Engineering**
- **Electrical Engineering**
- **Manufacturing Engineering (Vancouver)**
- **Materials Science and Engineering**
- **Mechanical Engineering**

School of Mechanical and Materials Engineering

- **Faculty**
 - **Pullman (25)**
 - **Tri-Cities (2)**
 - **Vancouver (4)**
 - **Affiliate (3)**
 - **Emeritus (5)**
- **Research areas**
 - **Dynamics and Controls**
 - **Fluid mechanics**
 - **Manufacturing/Design**
 - **Robotics**
 - **Thermal Sciences**
 - **Mechanical and Physical Metallurgy**
 - **Ceramic Materials**
 - **Electronic Materials**
 - **Polymeric Materials**
 - **Solid Mechanics**

School of Mechanical and Materials Engineering

- **Mechanical Engineering**
 - **Undergraduates (351)**
 - **M.S. (34-Pullman,22-TriCities)**
 - **Ph.D. (21-Pullman,3-TriCities)**
- **Material Science**
 - **Undergraduates (27)**
 - **M.S. (13-Pullman, 2-TriCities)**
 - **Ph.D. (18-Pullman)**
- **Manufacturing Engineering**
 - **Undergraduates**
 - **M.S. (5-Vancouver)**

School of Mechanical and Materials Engineering

- **Laboratories and Centers**
 - **Center for Integrated Biotechnology**
 - **Center for Multiphase Environmental Research**
 - **Computational Mechanics and Materials Laboratory**
 - **Center for Materials Research**
 - **Institute for Shock Physics**
 - **Micro Scale Thermo Fluidic Laboratory**
 - **Virtual Assembly Technology Consortium**
 - **High Resolution X-Ray Computed Tomography Laboratory**
 - **MEMS**
 - **Sports Science Laboratory**

Reinforced Polymers

- **Manufacturing**
 - **Wet layup**
 - **Autoclave**
- **Visco-elastic damage evolution**
- **Multiaxial mechanical testing**
- **Environmental degradation**

Sports Science Laboratory

