



Appendix A-14: List of college student innovation and entrepreneurship projects

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| | Project Name | Project Leader | Instructor |
|------|---|-----------------------|-------------------|
| 2024 | Research on the Strengthening and Toughening Mechanism and Constitutive Relationship of Basalt Fiber Recycled Concrete | Li Zhixin | Wang Xinzhong |
| | Mechanical Performance and Reinforcement Scheme Comparison Design of Cracked Reinforced Concrete Simply - Supported Bridges | Yang Jiaxin | Zhou Shuming |
| | Damage Performance Evaluation of Reinforced Concrete Members under Earthquake Action | Xiong Yingyi | Wang Yukui |
| | Experimental Research on the Bonding Mechanism and Anchorage Performance of Locally Rust - Broken Prestressed Tendons | Zhang Yuanyang | Huang Guoping |
| 2023 | Research on the Bonding Performance between Corroded Steel Strands and Concrete in an Oxygen - Salt Erosion Environment | Li Chunhua | Li Hai |
| | Experimental Research on the Compressive Performance of Special - shaped Concrete - Filled Square Steel Tube Composite Columns | Peng Hao | He Ran |
| | Research on the Flexural Performance of Prestressed Concrete Members after Local Fracture of Steel Strands | Zhang Wenhao | Yang Rihua |
| | Research on the Shear - Bearing Performance of Demountable Studs in Prefabricated Steel - Page - like Ceramsite Concrete Composite Beams | Zhou Huibin | Zhang Zaihua |
| | Research on the Influence and Prevention of Continuous Groundwater Decline on the Foundation Settlement of Existing Buildings | Fang Weiqi | Peng Zhigao |
| | Research on the Shape Control Method in the Construction Process of Long - Span Concrete - Filled Steel Tube Arch Bridges | Wu Shuyao | Wu Yuexing |
| | Research on the Seismic Performance of Haunched Semi - Rigid Joints between Square Steel Tube Columns and H - shaped Steel Beams | Liu Jinjie | Zhang Dan |
| 2022 | Research on the Chloride Ion Transport Performance in the Interface Zone of Prefabricated - Cast - in - situ Concrete Structures in Coastal Areas | Sun Jinzhao | Yang Yiming |



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| | Research on the Performance - Based Seismic Design Method of Reinforced Concrete Members | Zhong Dou | Wang Yukui |
| | Research on the Strengthening Mechanism and Stress - Strain Full - Curve Equation of High - Performance Basalt Fiber Concrete | Han Jun | Wang Xinzhong |
| 2021 | Experimental Research on the Mechanical Performance of Reinforced Frame All - Light Ceramsite Concrete Composite Floor Slabs | Chen Yujuan | Mao Guangxiang |
| | Research on the Pure Bending Performance of Multi - Cavity Round - Ended Concrete - Filled Steel Tube Columns | Ji Haobo | Liu Jin |
| | Research on the Shear Performance of Corroded Reinforced Concrete under Different Shear - Span Ratios | Chen Shangkan | Li Hai |
| | Experimental Research on the Bond - Slip Performance of Corrugated Steel Plate Ceramsite Concrete | Chen Guangzheng | Xie Jin |
| | Research and Development of a Vacuum Saturation Device for Geotechnical Tests | Yang Aocheng | Peng Zhigao |
| | Structural Damage Detection Based on the Second - Order Covariance of Dynamic Strain | Yan Shichang | Li Miao |
| | Research on the Interface Bond Degradation Behavior and Deformation Calculation Method of CFRP - Strengthened Corroded RC Beams under Fatigue Load | Xu Peiyao | Tang Huang |
| 2020 | Research on the Performance of Shear Connectors in Prefabricated U - shaped Steel - Concrete Composite Beams | Liu Yang | He Ran, Li Jingchao |
| | Experimental Research on Prefabricated U - shaped Steel - Composite Beams under Negative Bending Moment | Wu Yusheng | Hu Zhangqi, Tian Yanxin |
| | Research on the Dynamic Characteristics and Bearing Capacity Performance of Profiled Steel Sheet - Ceramsite Concrete - Fiber - Reinforced Cement Board Composite Floor Slabs | Hu Guoxing | Zhang Zaihua |