

## Undergraduate Engineering Student Endowment Laboratory Fund: WESEL

## Note: WESEL contributions are adjusted up to amount approved once purchases are made. Equipment Funded: WESEL / Yr DEPT Location WESEL Faculty Total Year Equipment Dept Total 2012/13 \$13,491 \$26,982 SEB 1076 \$13,491 \$13,491 MME Marcel Boilers 2013/14 CBE SEB 1081 Filter Press \$8,500 \$17,513 \$8,500 \$34,513 CEE SEB 22 Quantum Datalogger \$7.000 \$10.720 \$7.000 \$24.720 \$15,500 2014/15 CBE SEB 1080/81 Particle Size Reduction Mill \$6.409 \$12.817 \$6.409 \$25.635 SEB 3101 \$7,400 \$14,814 \$7,400 \$29,614 \$13,809 ECE Mechatronics Lab Equipment Equipment for particulate operations 2015/16 CBE SEB 1080/81 and organic Chemistry. \$5,023 \$10,046 \$5,023 \$20,092 \$7 957 \$12 980 MME SEB 1076 Pressurization test rigs \$7 957 \$15 919 \$31 829 2016/17 MME SEB 1076 Steam Turbine Upgrade \$10,740 ECE SEB 3099 UHF Antenna (ECE 4432) \$11,088 \$8,142 \$2,772 \$5,544 Sedimentation & Fermentation \$59,172 2017/18 SEB 1080/81 \$14.793 \$29.586 \$14.793 CBE Monitoring System UHF Antenna (ECE 4432) \$3,000 ECE SEB 3099 \$6,127 \$12,127 MME SEB 3098 Extensometers (Tensile Testing Lab) \$3,102 \$3,102 \$12,409 \$20,895 \$6,205 2018/19 CBE SEB 1040 Gas chromatographs (3) \$13,538 \$54,152 \$27.076 Concrete compressive strength testing CEE SEB 22 equipment. \$5,687 \$11,375 \$5,687 \$22,749 \$26.130 MME SEB 1071 Small Scale laser cutter \$6.905 \$13,812 \$6,905 \$27.622 2019/20 CBE/MME\_SEB 1077 Heat transfer equipment. \$24.741 \$12.370 \$12.370 \$49.481 \$30,000 \$16,985 \$20,955 \$67,940 \$54,741 CEE SEB 22 Triaxial shear testing equipment. 2020/21 CBE SEB 1082 Infrared spectrophotometer \$12,342 \$10,513 \$7,618 \$30,473 CBE SEB 1079 Engineering Coffee Course Equipment \$2,642 \$5,260 \$2,642 \$10,544 SEB 3105 \$45,016 \$23.508 \$22,973 \$91,497 \$60,000 MME Mechanical Vibration Stations 2021/22 CBE SEB 1079 \$2,918 \$1,459 \$1,497 \$5,874 Equipment for Engineering Coffee Course Lab instrumentation for in situ monitoring of chemical and biochemical \$9.857 \$5 084 \$4 774 \$19 715 CBE SEB 1082 kinetics and conjugation. CBE/MME SEB 1077 Refrigeration Laboratory Equipment \$21,732 \$10,866 \$10,866 \$43,464 Analytical Instrumentation for SEB 19 Environmental Engineering Lab \$17,283 \$8,642 \$8,641 \$34,566 CEE ECE ACEB 3455 Auto Lab W PCB milling machine \$11,800 \$12,504 \$24,304 Lab equipment update: PC's Lab equipment update: digital \$6,439 ECE SEB 2093 \$3,219 \$3.220 oscilloscopes/multimeters, function ECE SEB 3107 generators \$17,115 \$21,128 \$4,012 \$42,255 \$83,924 2022/23 SEB 1081 Distillation Column Upgrades \$7,000 \$4,763 \$11,763 CBE CBE SEB 1079 Active Learning Equipment \$2,603 \$4,268 \$6,871 MME SEB 3100 Liquid Level Control Laboratory \$33,510 \$16 755 \$16,755 \$67.020 \$43,113 Upgrade of core facilities in the CBE 2023/24 SEB 1082 \$14,160 \$6,617 \$6,617 \$27,394 CBE undergraduate laboratory SEB 1082 \$3,253 \$1,626 \$1,626 \$6,505 CBE Data Acquisition Hardware Equipment for "Engineering Coffee" SEB 1079 \$642 \$642 \$2,567 CBE \$1,283 Concrete Mortar mixers for the CEE SEB 22 \$18,666 \$9,628 \$9,628 \$37,922 Structures Lab Upgrading SEB 3107 lab equipment ECE SEB 3107 \$2,117 \$2,117 \$4,234 Liquid Level Control and Servo \$21 462 \$85,849 MME SEB 3100 Trainers Equipment Laboratory \$42,925 \$21 462 \$19,463 \$19,463 \$63.875 \$107.353 MME SEB 1074 Pipe Friction/Losses Test Stand \$24.949 2024/25 CBE UV-VIS Spectrophotometer acquisition \$7,640 \$7,640 \$15,280 CEE Dust Collectors \$3,000 \$1,500 \$1,500 \$6,000 ECE AI-based Cyber-physical Cybersecurity Lab (Phase 1) \$38,280 \$38,280 \$76,560 MME 3D Printer Updates \$12,086 \$6,043 \$6,043 \$24,172 MME Hardness Testing Apparatus \$31,004 \$15,502 \$15,502 \$62,008 \$92,010

Totals \$552,088 \$493,626 \$293,043 \$1,338,757