

ENGINEER 1: ENTRY-LEVEL MECHANICAL/ELECTRICAL ENGINEER

This is an entry-level position normally held by a recent engineering graduate. The focus is on training and developing practical experience by drawing from knowledge acquired during academic study.

RDFA encourages entry-level graduate engineers to pass the Fundamentals of Engineering (FE) exam.

REPORTS TO: Designated Partner.

PURPOSE

Reporting to the Designated Partner, the Engineer I is responsible for providing design and drawing preparation for fire suppression, plumbing, heating/ventilating/air-conditioning (HVAC), electrical, and/or telecommunications design for university, primary and secondary schools, elder care, county office, commercial office, or other projects assigned, in a timely and cost-effective manner. All designs will be reviewed by the Designated Partner to ensure the work meets client, contractual, and company requirements.

ACCOUNTABILITIES

Work towards the achievement of the company vision statement. Be familiar and comply with the company's Quality Management System policy as it relates to the Engineer's area of work.

Under close supervision, prepare simple and routine plans, designs, calculations, and cost estimates by following standard engineering practices and procedures within well-established guidelines. Carry out routine technical surveys. Initial design projects could include fire suppression, plumbing, HVAC, Electrical, or Telecommunications building systems, depending on the Engineer's experience and/or company workload.

Interpret engineering specifications and solve routine problems by applying defined procedures with ample precedent.

Make suggestions for modifying concepts and/or product techniques and materials.

Assist senior engineers with more complex designs, plans, calculations, and surveys. Assist with proposal development and contract documentation. Assist the Designated

Partner in contract administration services during construction, including site visits and documentation of construction progress.

May assign and check assignments of engineering technologists, technicians, or non-graduate engineering students.

Establish good rapport and build relationships with peers and clients by responding to requests and communicating information in a timely manner.

Remain updated on current professional practices and maintain a high awareness of new products and procedures in industry by monitoring trade publications and actively participating in professional associations.

Comply with all company policies, including safety policies and safety regulations.

Work toward Professional Engineer License.

Perform other duties as required.

EDUCATION AND EXPERIENCE

University degree in mechanical, electrical, or civil engineering from an ABET-accredited engineering curriculum. Successful completion of the Fundamentals of Engineering examination is preferred, but not required.

Familiarity with computer modeling programs used to develop designs. Basic knowledge of AutoCAD or Revit is preferred, but not required.

Organized, good written and verbal communication skills, attention to detail, good attendance, sound problem-solving skills, and general computer knowledge.

Ability to travel to project construction sites, lift up to 40 lbs, and use ladders on a construction job site.



ROGER D. FIELDS ASSOCIATES, INC.

Consulting Engineers

Main Office:

4588 Kenny Road
Columbus, Ohio 43220-2777

Phone: 614-451-2248

Fax: 614-451-6628

Contact: Gregory C. Topp, P.E., LEED AP, Managing Partner, gtopp@rdfa.com

Branch Office:

193 Columbus Road
Athens, Ohio 45701

Website: www.rdfa.com

Established in 1982, Roger D. Fields Associates, Inc., (RDFA) has been in business for more than 34 years. We provide mechanical, electrical, plumbing, and fire suppression (MEP/FS) consulting engineering assessment, design, and construction phase services for architectural, governmental, and industrial clients; primary and secondary schools; colleges and universities; and building owners.

OUR SERVICES

Since 1982, we have been providing quality professional engineering design and outstanding customer service. We focus on building relationships with our clients. Our honesty, integrity, and attention to detail are the building blocks for successful, timely projects. Eighty to ninety percent of our work is for repeat clients. Ninety-five percent of our work is public work projects.

By emphasizing open communication with our clients, RDFA is committed to providing the highest quality of engineering design for each of our clients in accordance with each client's budget and time schedule.

We use our experience to assess and design the following types of systems:

- ✓ Heating/ventilating/air-conditioning (HVAC)
- ✓ Plumbing
- ✓ Fire suppression
- ✓ Electrical lighting and power, including exit lighting, emergency lighting, site lighting, and emergency power
- ✓ Electronic safety and security, including fire alarm, security, closed-circuit television, and diagnostic systems
- ✓ Telecommunications, including telephone, computer, data, intercom, sound, and cable television systems
- ✓ Site or underground utilities, including fire suppression water, domestic water, sanitary sewer, storm sewer, gas, electrical, telephone, and cable television service systems
- ✓ Energy conservation

We are familiar with the following codes, regulations, and guidelines:

- ✓ 2011 Ohio Building Code, Ohio Plumbing Code, and Ohio Mechanical Code
- ✓ 2014 National Electrical Code
- ✓ Standards of the National Fire Protection Association
- ✓ International Fuel Gas Code
- ✓ Accessibility Guidelines of the Americans with Disabilities Act (ADA)
- ✓ Requirements of the U.S. Occupational Safety and Health Administration (OSHA)
- ✓ State of Ohio Standard Requirements for Public Facility Construction
- ✓ United States Green Building Council (USGBC) / Leadership in Energy and Environmental Design (LEED)

FIRM OVERVIEW



Energy-Efficient Design: We have three LEED Accredited Professionals on our staff — Gregory Topp, Michael Young, and John Kerr — and one LEED Green Associate. We have a total of 19 LEED Projects in design or completed. We have received Registration on six of these LEED projects, as well as Certification on 13; eight were certified LEED Silver, and three were certified LEED Gold. We have one project that is pending registration.



OUR PERSONNEL

We employ a total of 14 people. Our staff presently includes 3 registered (licensed) Mechanical Engineers, 1 registered (licensed) Electrical Engineer, 2 Mechanical Engineers, 1 Mechanical Designer, 2 Electrical Designers, 1 Electrical/Telecommunications Designer, 2 CAD/BIM Technicians, 1 Administrative Assistant, and 1 Secretary. Our firm is committed to equal employment opportunity. We do not discriminate on the basis of age, sex, race, disability, religion, military status, veteran status, or ethnic origin. We comply with all State and Federal Government requirements.

Our engineers hold professional registrations in Ohio, and in 23 other states.

Authorization to Provide Engineering Professional Services in the State of Ohio: RDFA holds Certificate of Authorization No. 02757, valid through June 30, 2016, from the State Board of Registration for Professional Engineers and Surveyors.