

Position Description

Job Title: Technical Director

Location: Flexible

Reports to: Executive Director

Introduction

P+Ex is a nonprofit center of excellence committed to preserving and extending the service life of concrete structures—advancing sustainability, stewardship of the built environment, and long-term societal value.

Founded in 2024, P+Ex is a credible and influential voice, bringing industry leaders together to develop and implement a strategic plan focused on key goals aimed at elevating awareness, developing practical tools, and leading meaningful actions.

The leader stepping into this role will help transform vision into execution—expanding influence, strengthening partnerships, advancing programs, and building the organizational capabilities required for growth.

The role offers the adventure of shaping an organization that is still writing its story—and the responsibility of ensuring that story delivers lasting value for our industry, society, and future generations.

Position Summary

The Technical Director [TD] will serve as P+Ex’s lead technical expert on concrete repair systems and their environmental impacts. This individual will oversee research initiatives, guide the development of environmental product declarations (EPDs) with life cycle assessments (LCAs), build technical resources, and facilitate industry panels to advance best practices and standards. The role requires both deep technical expertise and the ability to communicate complex concepts to diverse stakeholders.

Key Responsibilities

Technical Leadership & Research

- Lead the development and execution of research projects focused on quantifying the environmental impact of concrete repair solutions.
- Perform and oversee Life Cycle Assessments (LCA) and Environmental Product Declarations (EPD) for repair materials, systems, and case studies.
- Build and maintain a database of representative repair projects, including environmental performance metrics and service-life outcomes.
- Assess and recommend methodologies to expand EPD frameworks to include concrete repair and rehabilitation applications.

- Collaborate with service-life prediction experts to integrate durability modeling into environmental impact assessments.

Industry Engagement & Standards Development

- Facilitate professional panels and technical working groups to evaluate repair systems and their predicted service-life extension.
- Provide guidance on pathways to develop new industry standards, regulations, and environmental declaration protocols for repair solutions.
- Present technical findings at conferences, workshops, and industry events.

Communication & Reporting

- Produce high-quality technical reports, white papers, and guidance documents for industry and public audiences.
- Translate complex technical data into accessible insights for policymakers, practitioners, and the general public.
- Support grant writing and reporting for research funding.

Qualifications

- Master's degree in Civil Engineering, Materials Science, Structural Engineering, or a related field (PhD preferred but not required).
- Strong understanding of **concrete repair systems**, concrete products, durability, and service-life concepts.
- 5 to 10-year experience performing **LCA** in accordance with ISO 14040 and 14044 standards, developing **EPDs** based on ISO 14025 and ISO 21930, and writing technical reports.
- Good understanding of **PCR** development process as per ISO 14025.
- Familiarity with sustainability frameworks, embodied carbon accounting (e.g. ISO 14067), and environmental standards.
- Experience collaborating with multidisciplinary teams and external experts.
- Excellent communication skills, including the ability to lead panels, present research, and engage with industry stakeholders.
- Commitment to advancing sustainability and improving environmental outcomes in the built environment.

Application Process

Interested candidates should submit a resume, cover letter, and references to info@pexcoe.org.