



Job Title: GIS Intern

Introduction

HIP Consult is looking for a GIS Intern to join our team. Through this internship, you will develop open-source GIS and database skills. You will directly contribute to a platform that helps drive connectivity in emerging markets. Finally, through the internship, you will learn about the underlying digital infrastructure that enables our increasingly connected lives.

Company Overview

HIP Consult is an independent management consulting firm based in Washington DC, specializing in telecommunications, technology, and energy. HIP Consult offers strategic, commercial, and operational support to companies, international agencies, and governments worldwide, particularly in emerging markets. At HIP Consult, we are passionate about our clients' success and strive to be true partners in developing solutions that foster long-term growth.

Alongside and complementing its consulting work, the firm has developed proprietary databases, platforms, and analytics as part of its [InfraNav™](#) initiative. InfraNav includes the most comprehensive geospatial database for fiber optic network and data center infrastructure covering Sub-Saharan Africa, Middle East & North Africa, Latin America, and Asia. InfraNav has been used by telecommunications service providers, governments, and investors to identify infrastructure and technology gaps, prioritize network expansion opportunities, and compare the cost and impact of deploying different connectivity options.

Internship Description and Responsibilities

As a GIS Intern, you will contribute to the development and maintenance of HIP Consult's geospatial databases, primarily related to telecommunications infrastructure. As a GIS Intern, you will use open-source programs such as QGIS and PgAdmin to edit vector geometries and standardize metadata. You will also conduct research to identify and document network infrastructure developments primarily in emerging markets. Specific responsibilities include:

- Source and download geospatial data from online repositories
- Update telecommunications infrastructure data sets using open-source GIS software
- Process, clean, and standardize geospatial vector data; edit topologies
- Update data attributes using SQL queries
- Conduct research and catalog telecommunications infrastructure across global emerging markets
- Present mapping progress in weekly team meetings

The GIS internship begins with a training program which includes an introduction to telecommunications infrastructure, guidelines for mapping and standardizing GIS data, and how to bulk update data attributes

in cloud-hosted databases. Day-to-day activities may vary depending on external or internal projects undertaken by the firm during the internship period.

Qualifications

Required

- Strong academic record in Geography, GIS, International Affairs, and/or another relevant field
- 1+ year GIS desktop software experience (QGIS preferred)
- Strong web-based research and analytical skills
- Enthusiastic, motivated team player with strong communication skills
- Close attention to detail
- Strong problem-solving and troubleshooting abilities
- Interest in international relations, telecommunications, technology, and/or connectivity, particularly in an emerging markets context

Preferred

- Familiarity with SQL, preferably PostgreSQL
- Reading and/or speaking proficiency in Spanish, French, Portuguese, Russian, Arabic, or another non-English language
- Experience using Python (or other programming languages) for GIS applications

Location

Washington, DC (Hybrid)

Details

This position is available immediately, but we welcome applicants seeking a later start date to apply. Full-time and part-time (20+ hours) internships are available. Interns are paid at an hourly rate of US\$16.50.

To apply, please submit a resume, cover letter, and unofficial academic transcript to careers@hipconsult.com

We looking forward to hearing from you!