

Energy Advisor Intern 2016

Cindy Beeler, Energy Advisor in the Office of the Regional Administrator, is looking for two summer interns or one longer-than-summer intern to assist with the projects listed below.

She will work closely with the intern – the list is ambitious and together the projects will be prioritized:

1. Uinta Basin oil and gas emission inventory support – comparative analyses of data submitted between operators and analyses comparing emission inventory data versus data submitted to EPA's Greenhouse Gas Reporting Program – subpart W. Also compare UB emission inventory data with the Tribal Minor Source registration data.
[Skill with Excel, Access]
2. Indian country oil and gas production statistics – using a previously developed model builder and HPDI DrillingInfo data, update our Region 8 Tribal oil and gas statistics.
[Skill with Excel, Access, ArcGIS]
3. Uinta Basin Pneumatic Controller Research Project – compile activity data gathering reports collected in the field into a single Excel or Access data file and create queries, reports from these.
[Skill with Excel, Access]
4. SharePoint site creation and administration – create SharePoint sites for our Uinta Basin Team and our Bakken Team. Produce and deliver training to Team member son use of these sites. Train and provide documentation to person who will assume SharePoint sites after intern departure.
[Opportunity to learn SharePoint]
5. Analyze field observations made with thermal infrared camera at midstream gas facilities to develop metrics on frequency of occurrence of defined events.
[Skill with Excel, Opportunity to learn FLIR VideoReport editing software]
6. Support Region Oil and Gas Muster – create sub-lists within our current contact list to differentiate EPA R8, EPA HQ, state and local agency, federal agencies, Tribal agencies, and industry. Create Outlook Group for each.
[Skill Outlook]
7. Uinta Basin “Find & Fix” Project – If project moves forward, support the compilation of data collected for analysis.
[Skill with Excel, Access]
8. Oil and gas air emission reduction costs – compile the details behind headquarters costs estimates for emission controls and our Region 8 cost data used to support rulemaking to ensure consistency between approaches, document basis, and create a template spreadsheet for updates in the future.
[Skill with Excel]

9. Create energy metrics for Region 8 – research and develop metrics that can compare basins or fields (e.g., emissions by pollutant per BTU output) and benchmark different emission inventory (EI) data (e.g. Western Air Regional Partnership EIs, EPA’s Greenhouse Gas Reporting Program, Uinta Basin EI, etc.).
[Skill with Excel, PowerPoint]
10. Support Bakken Team in preparing PowerPoint presentations for delivering training to MHA environmental staff.
[Skill with PowerPoint]
11. Pull Region 8 oil and gas activity data and reported methane emissions from EPA’s GreenHouse Gas Reporting program subpart W via on-line Facility Level Information on GreenHouse Gases Tool (FLIGHT) <http://ghgdata.epa.gov/ghgp/main.do>
[Skill with Excel, Powerpoint]
12. Do comparative analysis of data of two methods of estimating emissions from oil and condensate storage tanks – one from sophisticated process simulation software and the other from API’s E&P TANK model. Results have been obtained already, but a comparison of resultant emission factors (e.g. methane, volatile organic compounds – VOCs – in pounds/barrel, benzene and n-hexane as well as other speciated compounds in the emission stream) needs to be done.
[Skill with Excel]

Feel free to contact Cindy Beeler at:
303-312-6204 or beeler.cindy@epa.gov

You may also contact interns who have worked for Cindy previously:

- Travis Landauer at 970-331-1631 or tlandauer30@gmail.com
- Garrett Eppers at 303-946-8322 or gjeppers@rams.colostate.edu