



## We're Hiring

To serve the best and brightest, we want to work with the best and brightest.

Cognascents is always looking for seasoned, proven, and effective leaders to join our network of Cognascents Process Engineering, Process Safety, and Environmental Professionals.

We are currently interested in industry experts with:

- 5-7 years of experience performing pressure relief analysis (PRA); and
- 5-7 years of experience facilitating process hazard analyses (PHAs).

[Email us](#) with your résumé if you are ready to join the team. Domestic travel is required for all positions as we serve clients across the United States. International travel may also be necessary as many of our clients have assets overseas.

## The Integrity Blog

### Are You Loyal?

Do you remember the last time you betrayed someone or let someone down by not meeting your commitments? Was it missing or cancelling a lunch date? Was it telling a little white lie?

None of us are perfect; hence, none of us are perfectly loyal. This is a sad statement because it inherently means there is a part of us designed to let people (including ourselves) down. There are two ways to accept this reality of life.

Continue reading the [Cognascents' blog](#) to find out if you are really walking the walk.

### Hidden Hazards

A scenario recently came up in one of our HAZOP / LOPA studies that made me question how well our industry risk assesses utility systems. Our

### Plan Ahead...2019 is coming!

Although in Houston we're still feeling the summertime heat...2019 is just around the corner!

### Feeling Unstable?

One of the challenges in relief valve sizing is ensuring the stability of the relief valve. Though relief valve sizing and hydraulics are generally

clients' approaches to utility systems in Process Hazard Analyses (PHAs) are quite diverse. Some of the approaches include:

1. Considering utility systems outside of the scope of a PHA and ignoring them altogether;
2. Reviewing some utilities but not others;
3. Performing a risk assessment on utility systems by way of a check-the-box effort; and,
4. Performing a true risk assessment on all of their utility systems.

Think you may have some hazards hiding in your utility systems? We can give you a **good place** to start.

As we all know, many small, yet vital projects get placed on the back burner each year. As the fourth quarter of 2018 rapidly approaches, take a minute and evaluate your safety programs. Is there something in particular that keeps you up at night? Do you have any to-dos that you think, "I'll get to that tomorrow?"

"There's an old saying that if you think safety is expensive, try an accident. Accidents cost a lot of money. And, not only in damage to plant and in claims for injury, but also in the loss of the company's reputation." -Dr. Trevor Kletz

Plan ahead. We're here to help.

performed assuming "steady state" flow, in reality, the flow is often dynamic in nature. The flowrate through the valve may be affected by the changes in the inlet and outlet pressures. This presents difficulty in predicting how a relief valve will act during a given relief event.

There are three main types of dynamic responses to variable flow conditions:

- Cycling
- Fluttering
- Chattering

Learn more about **these responses** in particular and how a number of factors may contribute to relief valve instability.

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What is Cognascents? | Process Engineering Services | Process Safety Services  
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