

## Proposal for Master Thesis work (exjobb) at Westinghouse

### Title: BWR Fuel failure statistics – Westinghouse fuel

Purpose of the proposed Master Thesis:

To improve the knowledge regarding BWR fuel failure modes and correlate the changes in operation of these BWRs (such as power uprates, changes in water chemistry, load follow type of operation and/or changes in cycle length and also fuel design types) with the occurrence of these fuel failures. Investigations will include analysis of results from fuel inspections and hot cell investigations. Statistical analysis of the SVEA-96 Optima3 fuel failures is of specific interest. Investigations related to accident tolerant fuel could also be included in this thesis work.

### Applicant profile:

We are looking for a graduate student with physics / materials background that is interested to learn more about nuclear fuel and related degradation mechanisms.

### Supervisor from Westinghouse:

Clara Anghel, PhD, BTM, Materials and Fuel Performance

### Timeline:

Start during autumn 2019

### Contact:

If you are interested please contact:

Christofer Willman, PhD, manager BTM division

Email: [willmack@westinghouse.com](mailto:willmack@westinghouse.com)

Tel.: +46732367562

