



## Postdoctoral Research Fellow Position

A postdoctoral research position is available in the laboratory of **Dr. Nicholas De Lay** in the Department of Microbiology at the University of Texas Health Science Center in Houston to study the mechanisms by which small regulatory RNAs (sRNAs) act to post-transcriptionally regulate gene expression in the model gram-negative bacterium *Escherichia coli*. This position is supported by funding from National Institute of General Medical Sciences (R01GM121368). In bacteria, sRNAs have been shown to play a key role in controlling biofilm development, motility, stress responses, antibiotic resistance, and virulence in response to specific signals.

The major areas of interest of the De Lay laboratory are: (1) to understand how polynucleotide phosphorylase, an enzyme highly conserved in bacteria and eukaryotes, impacts sRNA stability and function in *E. coli*, (2) to discover additional proteins involved in sRNA-mediated regulation of gene expression and elucidate their roles, and (3) to understand the role of sRNAs in regulating *Streptococcus pneumoniae* virulence. *S. pneumoniae* is an important human pathogen and is the leading cause of bacterial pneumonia and sepsis. For more information, please visit Dr. De Lay's website: <https://med.uth.edu/mmg/labs/de-lay-lab/>.

### Qualifications:

Qualified applicants should have a strong background in molecular biology and microbiology, and applicants with experience with RNA biology and biochemistry are preferred. Fluency in written and spoken English is required.

### To apply:

Please send a single pdf document containing a cover letter, description of research experience and interests, curriculum vitae, and contact information for three references to [nicholas.r.delay@uth.tmc.edu](mailto:nicholas.r.delay@uth.tmc.edu).

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