**academia vs industry**

industry provides resources to create products and ways for its workers to develop the skills by which to invent and produce more products.

academia provides resources to imagine new ideas and ways for its students to develop the skills by which to invent and produce more ideas.

**research vs development**

research involves the activity of testing an untested idea or hypothesis.

development involves the implementation of a known structure or idea.

depending upon the scale of ambition or labor:
  • some development requires some research.
  • some research requires some development.

**faculty research and research assistants**

a larger vision is targeted by a senior mind. to realize that vision, research assistants can find subresearch topics within the vision. however the percentage of research $R$ versus the percentage of development $D$ should follow the relationship $R >> D$. in an applied field, the relationship will usually be something like $R \geq D$. often times due to poor faculty research management of a research assistant, situations like $D \geq R$ or $D >> R$ are possible. such an assistant can become unhappy, after all they are called research assistants. in some cases an ra can come into a program extremely unskilled due to an admission misread or whatever other reason. in this case, the ra must be trained early on in development skills. thus for a time, there can be $D \geq R$ or $D >> R$ where the supervisor should recognize when to increase the enskilled ra with more $R$.

**urop doing research vs development**

in either the case of a larger vision or subvision, people can become averse to development activity $D$. the belief is that this activity can always be farmed out to a junior intellectual community. in the case of faculty, it is research assistants. in the case of research assistants, it is urops. a urop by virtue of the ‘R’ in their acronym should have a relationship at least of $R \geq D$. however, some urops do not have the necessary level of skills. those urops will be better off doing more development $D \geq R$ and in the case of being extremely unskilled, $D >> R$. note that it is of paramount concern that the supervisor recognize when to graduate the urop to a higher percentage of $R$.

**development for dollars**

if there is a task at hand of purely developmental nature, then the development assistant should be paid proportionately more than the research assistant because the work is of a purely skilled nature.