

# ETROC project: resource needs update

- We are in the process of updating the P6 schedule for ETROC (for CD2)
- Below is the latest version (FNAL ASIC FTEs below):
  - **FNAL ASIC engineers:** 4.41 FTEs (old) → **8.33 FTEs (new)**
    - This includes FNAL hiring two highly experienced EE students next year for 2 years

| Grand Total (CD2)                          | Total (hours) | Total (FTE) | CY18 |      | CY19 |      | CY20 |      | CY21 |      | CY22 |      | CY23 |      | CY24 |      |
|--|---------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Resource ID: FNd_ASIC_DESIGN_EN            | 14730         | 8.33        | 837  | 0.47 | 693  | 0.39 | 2304 | 1.30 | 4568 | 2.58 | 5904 | 3.34 | 424  | 0.24 | 0    | 0.00 |
| Resource ID: FNd_ELTN_DESIGN_EN            | 8236          | 4.66        | 0    | 0.00 | 0    | 0.00 | 650  | 0.37 | 2136 | 1.21 | 3164 | 1.79 | 2286 | 1.29 | 0    | 0.00 |
| Resource ID: CMS-HL_FN_SM_P_PHYS_ASIC_DES  | 2935          | 1.66        | 0    | 0.00 | 0    | 0.00 | 516  | 0.29 | 1219 | 0.69 | 880  | 0.50 | 320  | 0.18 | 0    | 0.00 |
| Resource ID: CMS-HL_FN_SM_P_PHYS_GRAD_STUD | 2727          | 1.54        | 0    | 0.00 | 887  | 0.50 | 1840 | 1.04 | 0    | 0.00 | 0    | 0.00 | 0    | 0.00 | 0    | 0.00 |
| Resource ID: CMS-HL_FN_SM_P_ENG_GRAD_STUD  | 7739          | 4.38        | 0    | 0.00 | 2816 | 1.59 | 1103 | 0.62 | 1780 | 1.01 | 1720 | 0.97 | 320  | 0.18 | 0    | 0.00 |

Our **FNAL ASIC request** for CY2021 remains to be the same:

|                  |           |           |           |           |
|------------------|-----------|-----------|-----------|-----------|
| <b>CY 2021:</b>  | <b>Q1</b> | <b>Q2</b> | <b>Q3</b> | <b>Q4</b> |
| Christian Gingu: | ~50%      | 100%      | 100%      | ~20%      |
| Jim Hoff:        | ~50%      | ~50%      | ~50%      | ~10%      |
| Qun Sun:         | 100%      | 100%      | 100%      | 100%      |